

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549

FORM 10-K

Annual Report Pursuant to Section 13 or 15(d) of the Securities Exchange Act of 1934

For the fiscal year ended December 31, 2016
Commission file number 001-09718

THE PNC FINANCIAL SERVICES GROUP, INC.

(Exact name of registrant as specified in its charter)

Pennsylvania

(State or other jurisdiction of incorporation or organization)

25-1435979

(I.R.S. Employer Identification No.)

The Tower at PNC Plaza
300 Fifth Avenue

Pittsburgh, Pennsylvania 15222-2401

(Address of principal executive offices, including zip code)

Registrant's telephone number, including area code - (888) 762-2265

Securities registered pursuant to Section 12(b) of the Act:

<u>Title of Each Class</u>	<u>Name of Each Exchange on Which Registered</u>
Common Stock, par value \$5.00	New York Stock Exchange
Depository Shares Each Representing a 1/4,000 Interest in a Share of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series P	New York Stock Exchange
Depository Shares Each Representing a 1/4,000 Interest in a Share of 5.375% Non-Cumulative Perpetual Preferred Stock, Series Q	New York Stock Exchange
Warrants (expiring December 31, 2018) to purchase Common Stock	New York Stock Exchange

Securities registered pursuant to Section 12(g) of the Act:

\$1.80 Cumulative Convertible Preferred Stock - Series B, par value \$1.00

Indicate by check mark if the registrant is a well-known seasoned issuer, as defined in Rule 405 of the Securities Act. Yes ☒ No ☐

Indicate by check mark if the registrant is not required to file reports pursuant to Section 13 or Section 15(d) of the Act. Yes ☐ No ☒

Indicate by check mark whether the registrant: (1) has filed all reports required to be filed by Section 13 or 15(d) of the Securities Exchange Act of 1934 during the preceding 12 months (or for such shorter period that the registrant was required to file such reports), and (2) has been subject to such filing requirements for the past 90 days. Yes ☒ No ☐

Indicate by check mark whether the registrant has submitted electronically and posted on its corporate Web site, if any, every Interactive Data File required to be submitted and posted pursuant to Rule 405 of Regulation S-T (§232.405 of this chapter) during the preceding 12 months (or for such shorter period that the registrant was required to submit and post such files). Yes ☒ No ☐

Indicate by check mark if the disclosure of delinquent filers pursuant to Item 405 of Regulation S-K is not contained herein, and will not be contained, to the best of registrant's knowledge, in definitive proxy or information statements incorporated by reference in Part III of this Form 10-K or any amendment to this Form 10-K. ☒

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer", "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer ☒ Accelerated filer ☐ Non-accelerated filer ☐ Smaller reporting company ☐

Indicate by check mark whether the registrant is a shell company (as defined in Rule 12b-2 of the Act). Yes ☐ No ☒

The aggregate market value of the registrant's outstanding voting common stock held by nonaffiliates on June 30, 2016, determined using the per share closing price on that date on the New York Stock Exchange of \$81.39, was approximately \$40.1 billion. There is no non-voting common equity of the registrant outstanding.

Number of shares of registrant's common stock outstanding at February 10, 2017: 486,156,269

DOCUMENTS INCORPORATED BY REFERENCE

Portions of the definitive Proxy Statement of The PNC Financial Services Group, Inc. to be filed pursuant to Regulation 14A for the 2017 annual meeting of shareholders (Proxy Statement) are incorporated by reference into Part III of this Form 10-K.

Table of Contents

THE PNC FINANCIAL SERVICES GROUP, INC. Cross-Reference Index to 2016 Form 10-K

TABLE OF CONTENTS

	<u>Page</u>
PART I	
Item 1 Business.	1
Item 1A Risk Factors.	16
Item 1B Unresolved Staff Comments.	25
Item 2 Properties.	25
Item 3 Legal Proceedings.	26
Item 4 Mine Safety Disclosures.	26
Executive Officers of the Registrant	26
Directors of the Registrant	27
PART II	
Item 5 Market for Registrant’s Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities.	28
Common Stock Performance Graph	29
Item 6 Selected Financial Data.	30
Item 7 Management’s Discussion and Analysis of Financial Condition and Results of Operations (MD&A).	32
Executive Summary	32
Consolidated Income Statement Review	35
Consolidated Balance Sheet Review	37
Business Segments Review	40
2015 Versus 2014	50
Risk Management	51
Critical Accounting Estimates and Judgments	71
Off-Balance Sheet Arrangements and Variable Interest Entities	75
Glossary of Terms	75
Cautionary Statement Regarding Forward-Looking Information	78
Item 7A Quantitative and Qualitative Disclosures about Market Risk.	79
Item 8 Financial Statements and Supplementary Data.	80
Report of Independent Registered Public Accounting Firm	80
Consolidated Income Statement	81
Consolidated Statement of Comprehensive Income	82
Consolidated Balance Sheet	83
Consolidated Statement of Changes in Equity	84
Consolidated Statement of Cash Flows	85
Notes To Consolidated Financial Statements	87
Note 1 Accounting Policies	87
Note 2 Loan Sale and Servicing Activities and Variable Interest Entities	98
Note 3 Asset Quality	101
Note 4 Allowances for Loan and Lease Losses	109
Note 5 Investment Securities	112

Table of Contents

THE PNC FINANCIAL SERVICES GROUP, INC.

Cross-Reference Index to 2016 Form 10-K (continued)

TABLE OF CONTENTS (Continued)

	<u>Page</u>
Item 8	Financial Statements and Supplementary Data. (continued)
	Note 6 Fair Value 116
	Note 7 Goodwill and Mortgage Servicing Rights 129
	Note 8 Premises, Equipment and Leasehold Improvements 131
	Note 9 Time Deposits 131
	Note 10 Borrowed Funds 131
	Note 11 Employee Benefit Plans 132
	Note 12 Stock Based Compensation Plans 138
	Note 13 Financial Derivatives 140
	Note 14 Earnings Per Share 145
	Note 15 Equity 146
	Note 16 Other Comprehensive Income 149
	Note 17 Income Taxes 150
	Note 18 Regulatory Matters 152
	Note 19 Legal Proceedings 152
	Note 20 Commitments 161
	Note 21 Parent Company 162
	Note 22 Segment Reporting 163
	Note 23 Subsequent Events 166
	Statistical Information (Unaudited) 166
Item 9	Changes in and Disagreements with Accountants on Accounting and Financial Disclosure. 174
Item 9A	Controls and Procedures. 174
Item 9B	Other Information. 174
PART III	
Item 10	Directors, Executive Officers and Corporate Governance. 174
Item 11	Executive Compensation. 175
Item 12	Security Ownership of Certain Beneficial Owners and Management and Related Stockholder Matters. 175
Item 13	Certain Relationships and Related Transactions, and Director Independence. 176
Item 14	Principal Accounting Fees and Services. 176
PART IV	
Item 15	Exhibits, Financial Statement Schedules. 176
<u>SIGNATURES</u>	177
<u>EXHIBIT INDEX</u>	E-1

Table of Contents

THE PNC FINANCIAL SERVICES GROUP, INC.

Cross-Reference Index to 2016 Form 10-K (continued)

MD&A TABLE REFERENCE

<u>Table</u>	<u>Description</u>	<u>Page</u>
1	Summarized Average Balances and Net Interest Income	35
2	Noninterest Income	36
3	Noninterest Expense	36
4	Summarized Balance Sheet Data	37
5	Details of Loans	38
6	Investment Securities	39
7	Weighted-Average Expected Maturities of Mortgage and Other Asset-Backed Debt Securities	39
8	Details of Funding Sources	40
9	Retail Banking Table	41
10	Corporate & Institutional Banking Table	43
11	Asset Management Group Table	45
12	Residential Mortgage Banking Table	47
13	BlackRock Table	48
14	Non-Strategic Assets Portfolio Table	49
15	Nonperforming Assets by Type	55
16	Change in Nonperforming Assets	55
17	Accruing Loans Past Due	56
18	Home Equity Lines of Credit – Draw Period End Dates	57
19	Consumer Real Estate Related Loan Modifications	58
20	Summary of Troubled Debt Restructurings	58
21	Allowance for Loan and Lease Losses	60
22	Loan Charge-Offs and Recoveries	60
23	PNC Bank Notes Issued During Fourth Quarter 2016	62
24	Senior and Subordinated Debt	62
25	Contractual Obligations	64
26	Other Commitments	64
27	Credit Ratings as of December 31, 2016 for PNC and PNC Bank	65
28	Basel III Capital	66
29	Interest Sensitivity Analysis	68
30	Net Interest Income Sensitivity to Alternative Rate Scenarios (Fourth Quarter 2016)	68
31	Alternate Interest Rate Scenarios: One Year Forward	68
32	Equity Investments Summary	69
33	Fair Value Measurements – Summary	71

[Table of Contents](#)

THE PNC FINANCIAL SERVICES GROUP, INC.

Cross-Reference Index to 2016 Form 10-K (continued)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS TABLE REFERENCE

<u>Table</u>	<u>Description</u>	<u>Page</u>
34	Cash Flows Associated with Loan Sale and Servicing Activities	99
35	Principal Balance, Delinquent Loans, and Net Charge-offs Related to Serviced Loans For Others	99
36	Non-Consolidated VIEs	100
37	Analysis of Loan Portfolio	102
38	Nonperforming Assets	103
39	Commercial Lending Asset Quality Indicators	104
40	Asset Quality Indicators for Home Equity and Residential Real Estate Loans – Excluding Purchased Impaired and Government Insured or Guaranteed Loans	106
41	Credit Card and Other Consumer Loan Classes Asset Quality Indicators	107
42	Financial Impact and TDRs by Concession Type	108
43	Impaired Loans	109
44	Rollforward of Allowance for Loan and Lease Losses and Associated Loan Data	110
45	Investment Securities Summary	112
46	Gross Unrealized Loss and Fair Value of Debt Securities	114
47	Gains (Losses) on Sales of Securities Available for Sale	115
48	Contractual Maturity of Debt Securities	115
49	Fair Value of Securities Pledged and Accepted as Collateral	116
50	Fair Value Measurements – Recurring Basis Summary	120
51	Reconciliation of Level 3 Assets and Liabilities	121
52	Fair Value Measurements – Recurring Quantitative Information	123
53	Fair Value Measurements – Nonrecurring	125
54	Fair Value Measurements – Nonrecurring Quantitative Information	125
55	Fair Value Option – Fair Value and Principal Balances	126
56	Fair Value Option – Changes in Fair Value	127
57	Additional Fair Value Information Related to Other Financial Instruments	128
58	Goodwill by Business Segment	129
59	Commercial Mortgage Servicing Rights	129
60	Residential Mortgage Servicing Rights	130
61	Commercial Mortgage Loan Servicing Rights – Key Valuation Assumptions	130
62	Residential Mortgage Loan Servicing Rights – Key Valuation Assumptions	130
63	Premises, Equipment and Leasehold Improvements	131
64	Depreciation and Amortization Expense	131
65	Lease Rental Expense	131

[Table of Contents](#)

THE PNC FINANCIAL SERVICES GROUP, INC.

Cross-Reference Index to 2016 Form 10-K (continued)

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS TABLE REFERENCE (Continued)

<u>Table</u>	<u>Description</u>	<u>Page</u>
66	Minimum Annual Lease Rentals	131
67	Time Deposits	131
68	Borrowed Funds	131
69	FHLB Borrowings, Senior Debt and Subordinated Debt	132
70	Reconciliation of Changes in Projected Benefit Obligation and Change in Plan Assets	133
71	Asset Strategy Allocations	134
72	Pension Plan Assets – Fair Value Hierarchy	136
73	Estimated Cash Flows	136
74	Components of Net Periodic Benefit Cost	137
75	Net Periodic Costs – Assumptions	137
76	Other Pension Assumptions	137
77	Stock Options – Rollforward	138
78	Nonvested Incentive/Performance Unit Awards and Restricted Share/Restricted Share Unit Awards – Rollforward	139
79	Total Gross Derivatives	140
80	Gains (Losses) on Derivatives and Related Hedged Items – Fair Value Hedges	141
81	Gains (Losses) on Derivatives and Related Cash Flows – Cash Flow Hedges	142
82	Gains (Losses) on Derivatives Not Designated for Hedging under GAAP	143
83	Derivative Assets and Liabilities Offsetting	144
84	Basic and Diluted Earnings Per Common Share	145
85	Preferred Stock – Authorized, Issued and Outstanding	146
86	Terms of Outstanding Preferred Stock	146
87	Summary of Replacement Capital Covenants of Perpetual Trust Securities	148
88	Summary of Contractual Commitments of Perpetual Trust Securities	148
89	Other Comprehensive Income	149
90	Accumulated Other Comprehensive Income (Loss) Components	149
91	Components of Income Tax Expense	150
92	Deferred Tax Assets and Liabilities	150
93	Reconciliation of Statutory and Effective Tax Rates	151
94	Net Operating Loss Carryforwards	151
95	Change in Unrecognized Tax Benefits	151
96	IRS Tax Examination Status	151
97	Basel Regulatory Capital	152
98	Commitments to Extend Credit and Other Commitments	161
99	Parent Company – Income Statement	162
100	Parent Company – Balance Sheet	162
101	Parent Company – Interest Paid and Income Tax Refunds (Payments)	162
102	Parent Company – Statement of Cash Flows	163
103	Results of Businesses	165

PART I

Forward-Looking Statements: From time to time, The PNC Financial Services Group, Inc. (PNC or the Corporation) has made and may continue to make written or oral forward-looking statements regarding our outlook for earnings, revenues, expenses, capital and liquidity levels and ratios, asset levels, asset quality, financial position and other matters regarding or affecting us and our future business and operations or the impact of legal, regulatory or supervisory matters on our business operations or performance. This Annual Report on Form 10-K (the Report or Form 10-K) also includes forward-looking statements. With respect to all such forward-looking statements, you should review our Risk Factors discussion in Item 1A, our Risk Management, Critical Accounting Estimates And Judgments, and Cautionary Statement Regarding Forward-Looking Information sections included in Item 7, and Note 19 Legal Proceedings and Note 20 Commitments in the Notes To Consolidated Financial Statements included in Item 8 of this Report. See page 75 for a glossary of certain terms used in this Report.

ITEM 1 – BUSINESS

Business Overview

Headquartered in Pittsburgh, Pennsylvania, we are one of the largest diversified financial services companies in the United States. We have businesses engaged in retail banking, corporate and institutional banking, asset management, and residential mortgage banking, providing many of our products and services nationally. Our primary geographic markets are located in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina. We also provide certain products and services internationally. At December 31, 2016, our consolidated total assets, total deposits and total shareholders' equity were \$366.4 billion, \$257.2 billion and \$45.7 billion, respectively.

We were incorporated under the laws of the Commonwealth of Pennsylvania in 1983 with the consolidation of Pittsburgh National Corporation and Provident National Corporation. Since 1983, we have diversified our geographical presence, business mix and product capabilities through internal growth, strategic bank and non-bank acquisitions and equity investments, and the formation of various non-banking subsidiaries.

Review of Business Segments

In addition to the following information relating to our lines of business, we incorporate the information under the caption Business Segments Review in Item 7 of this Report here by reference. Also, we include the financial and other information by business in Note 22 Segment Reporting in the Notes To Consolidated Financial Statements in Item 8 of this Report here by reference.

Assets, revenue and earnings attributable to foreign activities were not material in the periods presented. We periodically refine our internal methodologies as management reporting practices are enhanced. To the extent significant and practicable, retrospective application of new methodologies is made to prior period reportable business segment results and disclosures to create comparability with the current period. See Note 22 Segment Reporting in the Notes To Consolidated Financial Statements in Item 8 of this Report for information on enhancements made in the first quarter of 2015 to our internal funds transfer pricing methodology.

Retail Banking provides deposit, lending, brokerage, investment management and cash management services to consumer and small business customers within our primary geographic markets. Our customers are serviced through our branch network, ATMs, call centers, online banking and mobile channels. The branch network is located primarily in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina.

Our core strategy is to acquire and retain customers who maintain their primary checking and transaction relationships with us. We also seek to deepen relationships by meeting the broad range of our customers' financial needs with savings, liquidity, lending, investment and retirement solutions. A strategic priority for us is to redefine the retail banking business in response to changing customer preferences. A key element of this strategy is to expand the use of lower-cost alternative distribution channels, with an emphasis on mobile and online banking capabilities, while continuing to optimize the traditional branch network. In addition, we have a disciplined process to continually improve the engagement of both our employees and customers, which is a strong indicator of customer growth, retention and relationship expansion.

Corporate & Institutional Banking provides lending, treasury management, and capital markets-related products and services to mid-sized and large corporations, government and not-for-profit entities. Lending products include secured and unsecured loans, letters of credit and equipment leases. Treasury management services include cash and investment management, receivables management, disbursement services, funds transfer services, information reporting and global trade services. Capital markets-related products and services include foreign exchange, derivatives, securities, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. We also provide commercial loan servicing and technology solutions for the commercial real estate finance industry. Products and services are generally provided within our primary geographic markets, with certain products and services offered nationally and internationally.

Corporate & Institutional Banking's strategy is to be the leading relationship-based provider of traditional banking products and services to its customers through the economic

Table of Contents

cycles. We aim to expand our market share and drive higher returns by growing and deepening customer relationships through solutions-based selling, while maintaining prudent risk and expense management.

Asset Management Group provides personal wealth management for high net worth and ultra high net worth clients and institutional asset management. Wealth management products and services include investment and retirement planning, customized investment management, private banking, tailored credit solutions, and trust management and administration for individuals and their families. Our Hawthorn unit provides multi-generational family planning including estate, financial, tax planning, fiduciary, investment management and consulting, private banking, personal administrative services, asset custody and customized performance reporting to ultra high net worth families. Institutional asset management provides advisory, custody and retirement administration services. The business also offers PNC proprietary mutual funds. Institutional clients include corporations, unions, municipalities, non-profits, foundations and endowments, primarily located in our geographic footprint.

Asset Management Group is focused on being one of the premier bank-held individual and institutional asset managers in each of the markets it serves. The business seeks to deliver high quality banking, trust and investment management services to our high net worth, ultra high net worth and institutional client sectors through a broad array of products and services. Asset Management Group's primary goals are to service our clients, grow the business and deliver solid financial performance with prudent risk and expense management.

Residential Mortgage Banking directly originates first lien residential mortgage loans on a nationwide basis with a significant presence within the retail banking footprint. Mortgage loans represent loans collateralized by one-to-four-family residential real estate. These loans are typically underwritten to government agency and/or third-party standards, and either sold with servicing retained, or held on PNC's balance sheet. Loan sales are primarily to secondary mortgage conduits of Federal National Mortgage Association (FNMA), Federal Home Loan Mortgage Corporation (FHLMC), Federal Home Loan Banks and third-party investors, or are securitized and issued under the Government National Mortgage Association (GNMA) program, as described in more detail in Note 2 Loan Sale and Servicing Activities and Variable Interest Entities in Item 8 of this Report and included here by reference. The mortgage servicing operation performs all functions related to servicing mortgage loans, primarily those in first lien position, for various investors and for loans owned by us.

Residential Mortgage Banking is focused on adding value to the PNC franchise by building stronger customer relationships and providing quality investment loans and mortgage servicing opportunities. A strategic focus for us is to transform the home lending process by integrating our mortgage and home equity

lending into a common platform for improved efficiency and a better customer experience. Our national distribution capability provides volume that drives economies of scale, risk dispersion and cost-effective extension of the retail banking footprint to serve our customers with home financing needs and offer them our full suite of retail products.

BlackRock, in which we hold an equity investment, is a leading publicly traded investment management firm providing a broad range of investment and risk management services to institutional and retail clients worldwide. Using a diverse platform of active and index investment strategies across asset classes, BlackRock develops investment outcomes and asset allocation solutions for clients. Product offerings include single- and multi-asset class portfolios investing in equities, fixed income, alternatives and money market instruments. BlackRock also offers an investment and risk management technology platform, risk analytics, advisory and technology services and solutions to a broad base of institutional and wealth management investors. Our equity investment in BlackRock provides us with an additional source of noninterest income and increases our overall revenue diversification. BlackRock is a publicly traded company, and additional information regarding its business is available in its filings with the Securities and Exchange Commission (SEC).

Non-Strategic Assets Portfolio consists of a consumer portfolio of mainly residential mortgage and brokered home equity loans and lines of credit and a small commercial lending portfolio. We obtained a significant portion of these non-strategic assets through acquisitions of other companies.

Total business segment financial results differ from total consolidated net income, as presented in Note 22 Segment Reporting in Item 8 of this Report. The impact of these differences is reflected in the "Other" category. "Other" includes residual activities that do not meet the criteria for disclosure as a separate reportable business, such as gains or losses related to BlackRock transactions, integration costs, asset and liability management activities including net securities gains or losses, other-than-temporary impairment of investment securities and certain trading activities, exited businesses, private equity investments, intercompany eliminations, most corporate overhead, tax adjustments that are not allocated to business segments, and differences between business segment performance reporting and financial statement reporting (GAAP), including the presentation of net income attributable to noncontrolling interests as the segments' results exclude their portion of net income attributable to noncontrolling interests.

Effective for the first quarter of 2017, we intend to realign our segments with how we began managing our businesses in 2017 and we intend to change the basis of presentation of our segments as follows:

- Residential Mortgage Banking will be combined into Retail Banking,

Table of Contents

- Non-Strategic Assets Portfolio will be eliminated and the assets will be moved to Other and Corporate & Institutional Banking.
- Residential mortgages within Other will be moved to Retail Banking, and
- A portion of business banking will be moved from Retail Banking to Corporate & Institutional Banking.

We also are making certain adjustments to our internal funds transfer pricing methodology. Prior periods will be restated to conform to the new segment alignment and to our change in methodology.

Subsidiaries

Our corporate legal structure at December 31, 2016 consisted of one domestic subsidiary bank, including its subsidiaries, and approximately 60 active non-bank subsidiaries, in addition to various affordable housing investments. Our bank subsidiary is PNC Bank, National Association (PNC Bank), a national bank headquartered in Pittsburgh, Pennsylvania. For additional information on our subsidiaries, see Exhibit 21 to this Report.

Statistical Disclosure By Bank Holding Companies

The following statistical information is included on the indicated pages of this Report and is incorporated herein by reference:

	Form 10-K page
Average Consolidated Balance Sheet And Net Interest Analysis	167
Analysis Of Year-To-Year Changes In Net Interest Income	168
Book Values Of Securities	39 and 112-116
Maturities And Weighted-Average Yield Of Securities	39 and 115-116
Loan Types	38, 102-103 and 169
Selected Loan Maturities And Interest Sensitivity	172
Nonaccrual, Past Due And Restructured Loans And Other Nonperforming Assets	55-61, 90-93, 101-109 and 170
Potential Problem Loans	55-61
Summary Of Loan Loss Experience	59-60, 109-111 and 171
Allocation Of Allowance For Loan And Lease Losses	59-60 and 172
Average Amount And Average Rate Paid On Deposits	167
Time Deposits Of \$100,000 Or More	172
Selected Consolidated Financial Data	30-31
Short-term borrowings – not included as average balances during 2016, 2015, and 2014 were less than 30% of total shareholders' equity at the end of each period.	

Supervision and Regulation

PNC is a bank holding company (BHC) registered under the Bank Holding Company Act of 1956 (BHC Act) and a financial holding company under the Gramm-Leach-Bliley Act (GLB Act).

We are subject to numerous governmental regulations, some of which are highlighted below. See Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information regarding our regulatory matters. Applicable laws and regulations restrict our permissible activities and investments, impose conditions and requirements on the products and services we offer and the manner in which they are offered and sold, and require compliance with protections for loan, deposit, brokerage, fiduciary, investment management and other customers, among other things. They also restrict our ability to repurchase stock or pay dividends, or to receive dividends from our bank subsidiary, and impose capital adequacy and liquidity requirements. The consequences of noncompliance with these, or other applicable laws or regulations, can include substantial monetary and nonmonetary sanctions.

In addition, we are subject to comprehensive supervision and periodic examination by, among other regulatory bodies, the Board of Governors of the Federal Reserve System (Federal Reserve) and the Office of the Comptroller of the Currency (OCC). These examinations consider not only compliance with applicable laws, regulations and supervisory policies of the agency, but also capital levels, asset quality, risk management effectiveness, management ability and performance, earnings, liquidity and various other factors. The results of examination activity by any of our federal bank regulators potentially can result in the imposition of significant limitations on our activities and growth. These regulatory agencies generally have broad discretion to impose restrictions and limitations on the operations of a regulated entity and take enforcement action, including the imposition of substantial monetary penalties and nonmonetary requirements, against a regulated entity where the relevant agency determines, among other things, that such operations fail to comply with applicable law or regulations or are conducted in an unsafe or unsound manner. This supervisory framework, including the examination reports and supervisory ratings (which are not publicly available) of the agencies, could materially impact the conduct, growth and profitability of our operations.

The Consumer Financial Protection Bureau (CFPB) is responsible for examining PNC Bank and its affiliates (including PNC) for compliance with most federal consumer financial protection laws, including the laws relating to fair lending and prohibiting unfair, deceptive or abusive acts or practices in connection with the offer, sale or provision of consumer financial products or services, and for enforcing such laws with respect to PNC Bank and its affiliates. The results of the CFPB's examinations (which are not publicly

Table of Contents

available) also can result in restrictions or limitations on the operations of a regulated entity as well as enforcement actions against a regulated entity, including the imposition of substantial monetary penalties and nonmonetary requirements.

We also are subject to regulation by the SEC by virtue of our status as a public company and by the SEC and the Commodity Futures Trading Commission (CFTC) due to the nature of some of our businesses. Our banking and securities businesses, as well as those conducted by BlackRock, with operations outside the United States are also subject to regulation by appropriate authorities in the foreign jurisdictions in which they do business.

As a regulated financial services firm, our relationships and good standing with regulators are of fundamental importance to the operation and growth of our businesses. The Federal Reserve, OCC, CFPB, SEC, CFTC and other domestic and foreign regulators have broad enforcement powers, and certain of the regulators have the power to approve, deny, or refuse to act upon our applications or notices to conduct new activities, acquire or divest businesses, assets or deposits, or reconfigure existing operations.

We anticipate new legislative and regulatory initiatives over the next several years, focused specifically on banking and other financial services in which we are engaged. Legislative and regulatory developments to date, as well as those that come in the future, have had and are likely to continue to have an impact on the conduct of our business. The more detailed description of the significant regulations to which we are subject included in this Report is based on the current regulatory environment and is subject to potentially material change. See also the additional information included as Risk Factors in Item 1A of this Report discussing the impact of financial regulatory reform initiatives, including the Dodd-Frank Wall Street Reform and Consumer Protection Act (Dodd-Frank), and regulations promulgated to implement it, on the regulatory environment for us and the financial services industry.

Among other areas that have been receiving a high level of regulatory focus over the last several years are compliance with the Bank Secrecy Act and anti-money laundering laws, capital and liquidity management, cyber-security, the oversight of arrangements with third-party vendors and suppliers, the protection of confidential customer information, and the structure and effectiveness of enterprise risk management frameworks. In addition, there is an increased focus on fair lending and other consumer protection issues, including retail sales practices and fee assessment and collection.

New legislation, changes in rules promulgated by federal financial regulators, other federal and state regulatory authorities and self-regulatory organizations, or changes in the interpretation or enforcement of existing laws and rules, may directly affect the method of operation and profitability of our

businesses. The profitability of our businesses could also be affected by rules and regulations that impact the business and financial sectors in general, including changes to the laws governing taxation, antitrust regulation and electronic commerce.

The new presidential administration has laid out certain regulatory policy objectives and core principles to guide financial law and regulation in a series of recent executive orders and other actions. For example, the new presidential administration has directed the heads of executive departments and agencies to, among other things, temporarily suspend rulemaking until a new agency principal nominated by the administration has reviewed and approved any new regulations and to identify two existing regulations for repeal in connection with the issuance of any new rule. The administration also has announced a set of core principles intended to guide financial regulation, which include, among other things, rebalancing the goals of financial regulation to foster job and economic growth in addition to promoting financial stability, and that direct the Treasury Secretary, in consultation with the heads of the federal agencies that comprise the Financial Stability Oversight Council (FSOC), to conduct a review of existing financial laws, regulations, guidance and other requirements to determine the extent to which these promote the announced core principles. Whether and how these developments may impact the rules and policies applicable to us remains at this point unclear.

There are numerous rules governing the regulation of financial services institutions and their holding companies. Accordingly, the following discussion is general in nature and does not purport to be complete or to describe all of the laws, regulations and supervisory policies that apply to us. To a substantial extent, the purpose of the regulation and supervision of financial services institutions and their holding companies is not to protect our shareholders and our non-customer creditors, but rather to protect our customers (including depositors) and the financial markets and financial system in general.

Dodd-Frank Act

Dodd-Frank, which was signed into law on July 21, 2010, comprehensively reformed the regulation of financial institutions, products and services. Dodd-Frank requires various federal regulatory agencies to implement numerous new rules and regulations. Among other things, Dodd-Frank established the CFPB and the FSOC, a 10-member inter-agency body that is charged with identifying and monitoring systemic risks and strengthening the regulation of financial holding companies and certain non-bank companies deemed to be “systemically important”; provided for new capital standards that eliminate the treatment of trust preferred securities as Tier 1 regulatory capital; required that deposit insurance assessments be calculated based on an insured depository institution’s assets rather than its insured deposits; raised the minimum

Table of Contents

Designated Reserve Ratio (the balance in the Deposit Insurance Fund divided by estimated insured deposits) to 1.35%; established a comprehensive regulatory regime for the derivatives activities of financial institutions; prohibited banking entities, after a transition period and subject to certain exceptions and exemptions, from engaging in proprietary trading, as well as acquiring or retaining ownership interests in, sponsoring, and having certain types of relationships with hedge funds, private equity funds, and other private funds (through provisions commonly referred to as the “Volcker Rule”); placed limitations on the interchange fees charged for debit card transactions; and established new minimum mortgage underwriting standards for residential mortgages. Certain of the rules required by Dodd-Frank have not been proposed or finalized.

Banking Regulation and Supervision

Enhanced Prudential Requirements. Dodd-Frank requires the Federal Reserve to establish enhanced prudential standards for BHCs with total consolidated assets of \$50 billion or more, such as PNC, as well as systemically important non-bank financial companies designated by the FSOC for Federal Reserve supervision. For such BHCs, these enhanced standards must be more stringent than the standards and requirements applicable to BHCs with less than \$50 billion in assets, and must increase in stringency based on the Federal Reserve’s assessment of a BHC’s risk to the financial system. The FSOC may make recommendations to the Federal Reserve concerning the establishment and refinement of these enhanced prudential standards.

The Federal Reserve has adopted enhanced prudential standards related to liquidity risk management and overall risk management, which took effect for us on January 1, 2015. These rules, among other things, require that covered BHCs conduct liquidity stress tests at least monthly, maintain a contingency funding plan and sufficient highly liquid assets to meet net stress cash-flow needs (as projected under the company’s liquidity stress tests) for 30 days, and establish certain oversight and governance responsibilities for the chief risk officer, the board of directors, and the risk committee of the board of directors of a covered company. These standards also require the Federal Reserve to impose a maximum 15-to-1 debt to equity ratio on a BHC if the FSOC determines that the company poses a grave threat to the financial stability of the United States and that the imposition of such a debt-to-equity requirement would mitigate such risk.

In March 2016, the Federal Reserve requested comment on a revised set of proposed rules that would establish a single counterparty credit limit for BHCs with total consolidated assets of \$50 billion or more. Under the proposed rules, the aggregate net credit exposure by us, including our subsidiaries, to any single, unaffiliated counterparty, including its subsidiaries, would be calculated on a daily basis and could not exceed 25 percent of our Tier 1 capital. The proposed limit would cover credit exposure resulting from, among other

transactions, extensions of credit, repurchase and reverse repurchase transactions, purchases or investments in securities, and derivative transactions, although certain exposures, including, among others, exposures to the United States government, are excluded. Compliance with the proposed rules would be required one year after the effective date. The comment period on the proposal closed on June 3, 2016. The proposed rule, if finalized, would not have a material impact on our credit relationships with third parties.

The Federal Reserve continues to work towards finalizing the early remediation requirements that it must establish under Dodd-Frank for BHCs with more than \$50 billion in total assets. In addition, the Federal Reserve has indicated that it intends to continue to develop the set of enhanced prudential standards that apply to large BHCs in order to further promote the resiliency of such firms and the U.S. financial system. For additional information see Item 1A Risk Factors of this Report.

Regulatory Capital Requirements, Stress Testing and Capital Planning. PNC and PNC Bank are subject to the regulatory capital requirements established by the Federal Reserve and the OCC, respectively. The foundation of the agencies’ regulatory capital rules is the international regulatory capital framework developed by the Basel Committee on Banking Supervision (Basel Committee), the international body responsible for developing global regulatory standards for banking organizations for consideration and adoption by national jurisdictions. In July 2013, the U.S. banking agencies adopted rules to implement the new international regulatory capital standards established by the Basel Committee, known as “Basel III”, as well as to implement certain provisions of Dodd-Frank. Many provisions are phased-in over a period of years, with the rules generally fully phased-in as of January 1, 2019.

The rules adopted in July 2013 generally have three fundamental parts. The first part, referred to as the Basel III capital rule, among other things, narrowed the definition of regulatory capital, requires banking organizations with \$15 billion or more in assets (including PNC) to phase-out trust preferred securities from Tier 1 regulatory capital, establishes a new common equity Tier 1 (CET1) capital regulatory requirement for banking organizations, and revises the capital levels at which PNC and PNC Bank would be subject to prompt corrective action. These rules also require that significant common stock investments in unconsolidated financial institutions, as well as mortgage servicing rights and deferred tax assets, be deducted from CET1 regulatory capital to the extent such items individually exceed 10%, or in the aggregate exceed 15%, of the organization’s adjusted Basel III CET1 regulatory capital. Our common stock investment in BlackRock is treated as a significant common stock investment in an unconsolidated financial institution for these purposes. The Basel III capital rule also significantly limits the extent to which minority interests in consolidated

Table of Contents

subsidiaries (including minority interests in the form of REIT preferred securities) may be included in regulatory capital. In addition, for banking organizations, like PNC, which are subject to the advanced approaches (described below), the rule includes other comprehensive income related to both available for sale securities and pension and other post-retirement plans as a component of CET1 capital. The Basel III capital rule became effective on January 1, 2014 for PNC and PNC Bank, although many provisions are phased-in over a period of years.

The Basel III rule generally divides regulatory capital into three components: CET1 capital, additional Tier 1 capital (which, together with CET1 capital, comprises Tier 1 capital) and Tier 2 capital. CET1 capital is generally common stock, retained earnings, qualifying minority interest and, for advanced approaches banking organizations, accumulated other comprehensive income, less the deductions required to be made from CET1 capital. Additional Tier 1 capital generally includes, among other things, perpetual preferred stock and qualifying minority interests, less the deductions required to be made from additional Tier 1 capital. Tier 2 capital generally comprises qualifying subordinated debt, less any required deductions from Tier 2 capital. Total capital is the sum of Tier 1 capital and Tier 2 capital, less the deductions required from total capital.

The second major part of the rules adopted in July 2013 is referred to as the standardized approach and materially revises the framework for the risk-weighting of assets under Basel I. Under the regulatory capital rules, a banking organization's risk-based capital ratios are calculated by allocating assets and specified off-balance sheet financial instruments into risk-weighted categories (with higher levels of capital being required for the categories perceived as representing greater risk), which are used to determine the amount of a banking organization's total risk-weighted assets. The standardized approach for risk-weighted assets takes into account credit and market risk. To calculate risk-weighted assets under the standardized approach for credit risk, the nominal dollar amounts of assets and credit equivalent amounts of off-balance sheet items are generally multiplied by one of several risk adjustment percentages set forth in the rules and that increase as the perceived credit risk of the relevant asset increases. For certain types of exposures, such as securitization exposures, the standardized approach establishes one or more methodologies that are to be used to calculate the risk-weighted asset amount for the exposure. The standardized approach took effect on January 1, 2015 for PNC.

The third part of the rules adopted in July 2013 is referred to as the advanced approaches and materially revises the framework for the risk-weighting of assets under Basel II. The Basel II framework, which was adopted by the Basel Committee in 2004, seeks to provide more risk-sensitive regulatory capital calculations and promote enhanced risk

management practices among large, internationally active banking organizations. Advanced approaches risk-weighted assets take into account credit, market and operational risk and rely to a significant extent on internal models. The advanced approaches modifications adopted by the U.S. banking agencies became effective on January 1, 2014, and generally apply to banking organizations (such as PNC and PNC Bank) that have \$250 billion or more in total consolidated assets or that have \$10 billion or more in on-balance sheet foreign exposure. Prior to fully implementing the advanced approaches to calculate risk-weighted assets, PNC and PNC Bank must successfully complete a "parallel run" qualification phase. PNC and PNC Bank entered this parallel run qualification phase on January 1, 2013. As discussed further in Item 1A Risk Factors of this Report, the Basel Committee continues to consider additional, significant changes to the international capital framework for banking organizations. The timing of the Basel Committee's work, the likelihood that these or similar changes would be implemented by the U.S. banking agencies in the United States, and the implications of any such developments on the U.S. regulatory capital framework (including the advanced approaches and the parallel run qualification period for PNC and PNC Bank) are not fully known at this time.

As a result of the phase-in periods included in the Basel III rules, as well as the fact that we remain in the parallel run qualification phase for the advanced approaches, our regulatory risk-based capital ratios in 2016 were based on the definitions of, and deductions from, regulatory capital under Basel III (as such definitions and deductions were phased-in for 2016) and the standardized approach for determining risk-weighted assets. Until we have exited parallel run, our regulatory risk-based Basel III ratios will be calculated using the standardized approach for determining risk-weighted assets, and the definitions of, and deductions from, capital under Basel III (as such definitions and deductions are phased-in through 2019). Once we exit parallel run, our regulatory risk-based capital ratios will be the lower of the ratios calculated under the standardized approach and the advanced approaches. We refer to the capital ratios calculated using the phased-in Basel III provisions as the Transitional Basel III ratios. The Transitional Basel III regulatory capital ratios of PNC and PNC Bank as of December 31, 2016 exceeded the applicable minimum levels in effect for 2016. For additional information regarding the Transitional Basel III capital ratios of PNC and PNC Bank as of December 31, 2016, as well as the levels needed to be considered "well capitalized", see the Capital Management portion of the Risk Management section of Item 7 of this Report.

The Federal Reserve has adopted rules to apply an additional risk-based CET1 capital surcharge to U.S. firms identified as globally systemically important banks (GSIBs) using a scoring methodology that is based on five measures of global systemic importance (size, interconnectedness, substitutability,

Table of Contents

complexity, and cross-jurisdictional activity). In addition, in December 2016, the Federal Reserve finalized rules that require U.S. GSIBs and the U.S. operations of foreign-based GSIBs to meet a new minimum long-term debt requirement and a new minimum total loss-absorbing capacity (TLAC) requirement. The GSIB surcharge and the new minimum long-term debt and TLAC requirements are subject to a phase in period and will be fully effective on January 1, 2019. We are not a GSIB based on the methodology described above and, therefore, are not subject to these requirements.

The risk-based capital rules that the federal banking regulators have adopted require the capital-to-assets ratios of banking organizations, including PNC and PNC Bank, to meet certain minimum standards. Banking organizations must maintain a minimum CET1 ratio of 4.5%, a Tier 1 capital ratio of 6.0%, and a total capital ratio of 8.0%, in each case in relation to risk-weighted assets, to be considered “adequately capitalized.” Banking organizations also must maintain a capital conservation buffer requirement above the minimum risk-based capital ratio requirements in order to avoid limitations on capital distributions (including dividends and repurchases of any Tier 1 capital instrument, including common and qualifying preferred stock) and certain discretionary incentive compensation payments. The multi-year phase-in of the capital conservation buffer requirement began on January 1, 2016, and, for 2017, banking organizations (including PNC and PNC Bank) are required to maintain a risk-based CET1 capital ratio of at least 5.75%, a Tier 1 capital ratio of at least 7.5%, and a total capital ratio of at least 9.5% to avoid limitations on capital distributions and certain discretionary incentive compensation payments. When fully phased-in on January 1, 2019, banking organizations must maintain a CET1 capital ratio of at least 7.0%, a Tier 1 capital ratio of at least 8.5%, and a total capital ratio of at least 10.5%, in each case in relation to risk-weighted assets, to avoid limitations on capital distributions and certain discretionary incentive compensation payments.

For banking organizations that are subject to the advanced approaches (such as PNC and PNC Bank), these higher capital conservation buffer levels above the regulatory minimums could be supplemented by a countercyclical capital buffer based on U.S. credit exposures of up to an additional 2.5% of risk-weighted assets (once fully phased-in). This buffer is currently set at zero in the United States. In September 2016, the Federal Reserve finalized a policy statement on the framework and factors the Federal Reserve would use in setting and adjusting the amount of the U.S. countercyclical capital buffer. Covered banking organizations would generally have 12 months after the announcement of any increase in the countercyclical capital buffer to meet the increased buffer requirement, unless the Federal Reserve determines to establish an earlier effective date. Under the phase-in schedule for the countercyclical capital buffer, the maximum potential countercyclical capital buffer amount is 1.25% in 2017, 1.875% in 2018, and 2.5% in 2019 and thereafter. When fully

phased-in and if the full buffer amount is implemented, covered banking organizations would be required to maintain a risk-based CET1 capital ratio of at least 9.5%, a Tier 1 capital ratio of at least 11%, and a total capital ratio of at least 13% to avoid limitations on capital distributions and certain discretionary incentive compensation payments.

The regulatory capital framework adopted by the federal banking regulators also requires that banking organizations maintain a minimum amount of Tier 1 capital to average consolidated assets, referred to as the leverage ratio. Banking organizations are required to maintain a minimum leverage ratio of Tier 1 capital to total assets of 4.0%. As of December 31, 2016, the leverage ratios of PNC and PNC Bank were above the required minimum level.

Banking organizations subject to the advanced approaches (such as PNC and PNC Bank) also will be subject to a new minimum 3.0% supplementary leverage ratio that becomes effective on January 1, 2018. The supplementary leverage ratio is calculated by dividing Tier 1 capital by total leverage exposure, which takes into account on-balance sheet assets as well as certain off-balance sheet items, including loan commitments and potential future exposure under derivative contracts. BHCs with total consolidated assets of more than \$700 billion or assets under custody of more than \$10 trillion, as well as the insured depository institution subsidiaries of these BHCs, are subject to a higher supplementary leverage ratio requirement. These higher supplementary leverage requirements do not apply to PNC or PNC Bank.

Failure to meet applicable capital requirements could subject a banking organization to a variety of enforcement remedies available to the federal bank regulatory agencies, including a limitation on the ability to pay dividends or repurchase shares, the issuance of a capital directive to increase capital and, in severe cases, the termination of deposit insurance by the Federal Deposit Insurance Corporation (FDIC), and the appointment of a conservator or receiver. In some cases, the extent of these powers depends upon whether the institution in question is considered “well capitalized,” “adequately capitalized,” “undercapitalized,” “significantly undercapitalized” or “critically undercapitalized.” Generally, the smaller an institution’s capital base in relation to its risk-weighted or total assets, the greater the scope and severity of the agencies’ powers. Business activities may also be affected by an institution’s capital classification. For example, in order for PNC to remain a financial holding company and engage in the broader range of financial activities authorized for such a company, PNC and PNC Bank must remain “well capitalized.” At December 31, 2016, PNC and PNC Bank exceeded the required ratios for classification as “well capitalized.” The thresholds at which an insured depository institution is considered “well capitalized,” “adequately capitalized,” “undercapitalized,” “significantly undercapitalized” or “critically undercapitalized” are based on (i) the institution’s CET1, Tier 1 and total risk-based capital

Table of Contents

ratios; (ii) the institution's leverage ratio; and (iii) for the definitions of "adequately capitalized" and "undercapitalized", the institution's supplementary leverage ratio (if applicable) once the supplementary leverage ratio takes effect as a minimum requirement in 2018. For additional discussion of capital adequacy requirements, we refer you to the Capital Management portion of the Risk Management section of Item 7 of this Report and to Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report.

In addition to these regulatory capital requirements, we are subject to the Federal Reserve's capital plan rule, annual capital stress testing requirements and Comprehensive Capital Analysis and Review (CCAR) process, as well as the annual and mid-year Dodd-Frank capital stress testing (DFAST) requirements of the Federal Reserve (annual and mid-cycle) and the OCC (annual). As part of the CCAR process, the Federal Reserve undertakes a supervisory assessment of the capital adequacy of BHCs, including PNC, that have \$50 billion or more in total consolidated assets. For us, this capital adequacy assessment is based on a review of a comprehensive capital plan submitted to the Federal Reserve that describes the company's planned capital actions, such as plans to pay or increase common stock dividends, reinstate or increase common stock repurchase programs, or redeem preferred stock or other regulatory capital instruments, during the nine quarter review period, as well as the results of stress tests conducted by both the company and the Federal Reserve under different hypothetical macro-economic scenarios, including a supervisory adverse scenario and severely adverse scenario provided by the Federal Reserve. The Federal Reserve can object to our capital plan for qualitative or quantitative reasons. If the Federal Reserve objects to a BHC's capital plan, the BHC cannot make capital distributions without specific Federal Reserve approval.

In evaluating capital plans of BHCs with \$250 billion or more in total consolidated assets, \$10 billion or more in on-balance sheet foreign exposure, or \$75 million or more in nonbank assets, the Federal Reserve considers a number of qualitative factors, which have become increasingly important in the CCAR process in recent years. The Federal Reserve's supervisory expectations for the capital planning and stress testing processes at large and complex BHCs, including PNC, are heightened relative to smaller and less complex BHCs. In assessing a BHC's capital planning and stress testing processes, the Federal Reserve considers whether the BHC has sound and effective governance to oversee these processes. The Federal Reserve's evaluation focuses on whether a BHC's capital planning and stress testing processes are supported by a strong risk management framework to identify, measure and assess material risks and that provides a strong foundation to capital planning. The Federal Reserve also considers the comprehensiveness of a BHC's control framework and evaluates a BHC's policy guidelines for capital planning and assessing capital adequacy. A BHC's scenario design

processes and approaches for estimating the impact of stress on its capital position are comprehensively reviewed to ensure that projections reflect the impact of appropriately stressful conditions, as well as risks idiosyncratic to the BHC, on its capital position. Significant deficiencies in a BHC's capital planning and stress testing processes may result in a qualitative objection by the Federal Reserve to its capital plan.

From a quantitative perspective, the Federal Reserve considers whether under different hypothetical macro-economic scenarios, including the supervisory severely adverse scenario, the company would be able to maintain throughout each quarter of the nine quarter planning horizon, even if it maintained its base case planned capital actions, projected regulatory risk-based and leverage capital ratios that exceed the minimums that are, or would then be, in effect for the company, taking into account the Basel III capital rules and any applicable phase-in periods. Failure to meet a minimum regulatory risk-based or leverage capital requirement on a projected stress basis is grounds for objection to a BHC's capital plan. In addition, the Federal Reserve evaluates a company's projected path towards compliance with the Basel III regulatory capital framework on a fully implemented basis.

In connection with the 2017 CCAR exercise, we must file our capital plan and stress testing results using financial data as of December 31, 2016 with the Federal Reserve by April 5, 2017. We expect to receive the Federal Reserve's response (either a non-objection or objection) to the capital plan submitted as part of the 2017 CCAR in June 2017.

As part of the CCAR and annual DFAST processes, both we and the Federal Reserve release certain revenue, loss and capital results from their stress testing exercises. For the 2017 exercises, the Federal Reserve has announced that it intends to publish its supervisory revenue, loss and capital projections for participating BHCs under the supervisory adverse and severely adverse macro-economic scenarios using the common assumptions concerning capital distributions established by the Federal Reserve in its DFAST regulations (DFAST capital action assumptions), as well as capital ratio information using the company's proposed base case capital actions. Within 15 days after the Federal Reserve publishes its DFAST results, we also are required to publicly disclose our own estimates of certain capital, revenue and loss information under the same hypothetical supervisory severely adverse macro-economic scenario and applying the DFAST capital action assumptions.

Federal Reserve regulations also require that we and other large BHCs conduct a separate, mid-cycle stress test using financial data as of June 30 and three company-derived macro-economic scenarios (base, adverse and severely adverse) and publish a summary of the results under the severely adverse scenario. For the 2017 mid-cycle stress test cycle, we must publish our results in the period between October 5 and November 4, 2017.

Table of Contents

The Federal Reserve's capital plan rule provides that a BHC must resubmit a new capital plan prior to the annual submission date if, among other things, there has been or will be a material change in the BHC's risk profile, financial condition, or corporate structure since its last capital plan submission. Under the "de minimis" safe harbor of the Federal Reserve's capital plan rule, we may make limited repurchases of common stock or other capital distributions in amounts that exceed the amounts included in our most recently approved capital plan subject to certain conditions, including that the Federal Reserve does not object to the additional repurchases or distributions. Such distributions may not exceed, in the aggregate, 1% of Tier 1 capital for the CCAR 2016 planning period, and 0.25% of Tier 1 capital for the CCAR 2017 planning period and thereafter.

In September 2016, Governor Daniel Tarullo of the Federal Reserve outlined in a speech additional changes that the Federal Reserve is considering to its capital plan rule and the CCAR process, including the establishment of a new "stress capital buffer". Governor Tarullo indicated that such potential changes would be issued for public comment at a later date and, accordingly, the precise nature of these additional potential changes is not known at this time.

Basel III Liquidity and Other Requirements. The Basel III framework adopted by the Basel Committee included short-term liquidity standards (Liquidity Coverage Ratio or LCR) and long-term funding standards (Net Stable Funding Ratio or NSFR).

The rules adopted by the U.S. banking agencies to implement the LCR took effect on January 1, 2015. The LCR rules are designed to ensure that covered banking organizations maintain an adequate level of cash and high quality, unencumbered liquid assets (HQLA) to meet estimated net liquidity needs in a short-term stress scenario using liquidity inflow and outflow assumptions prescribed in the rules (net cash outflow). A company's LCR is the amount of its HQLA, as defined and calculated in accordance with the haircuts and limitations in the rule, divided by its net cash outflow, with the quotient expressed as a percentage.

Top-tier BHCs (like PNC) that are subject to the advanced approaches for regulatory capital purposes, as well as any subsidiary depository institution of such a company that has \$10 billion or more in total consolidated assets (such as PNC Bank), are subject to the full LCR (rather than the less stringent modified LCR). The minimum required ratio under the Full LCR was subject to a phase-in schedule, with the minimum in 2016 being 90%, increasing to the fully phased-in minimum of 100% effective January 1, 2017. Effective July 1, 2016, PNC and PNC Bank were required to calculate the LCR on a daily basis. An institution required to calculate the LCR on a daily basis must promptly provide its regulator with a plan for achieving compliance with the minimum if its LCR is below the minimum for three consecutive business days.

The Federal Reserve has adopted a rule that requires large BHCs, including PNC, to publicly disclose certain quantitative and qualitative measures of their LCR-related liquidity profile. These disclosures include major components used to calculate the LCR (e.g., HQLA, cash outflows and inflows for the consolidated parent company), and a qualitative discussion of the BHC's LCR results, including, among other things, key drivers of the results, composition of HQLA and concentration of funding sources. We will be required to make these disclosures starting with the second quarter of 2018.

The NSFR is designed to promote a stable maturity structure of assets and liabilities of banking organizations over a one-year time horizon. The Basel Committee, in October 2014, released the final NSFR framework. In April 2016, the Federal Reserve, FDIC and OCC requested comment on proposed rules that would implement the NSFR in the United States. The proposed rules would require a covered BHC to calculate its NSFR as the ratios of its available stable funding (ASF) and its required stable funding (RSF) amount, each as defined in the proposed rules, over a one-year horizon. The regulatory minimum ratio for all covered banking organizations is 100 percent. For BHCs with assets of \$50 billion or more, but less than \$250 billion, and on-balance sheet foreign exposure of less than \$10 billion, the RSF amount is scaled by a factor of 70 percent. The proposal also includes requirements for quarterly quantitative and qualitative NSFR disclosures. The requirements of the proposed rules would take effect January 1, 2018. The comment period on the proposed rules closed on August 5, 2016. Although the impact on us will not be fully known until the rules are final, we have taken several actions to prepare for implementation of the NSFR and we expect to be in compliance with the NSFR requirements when they become effective.

The Federal Reserve also has adopted new liquidity risk management requirements for BHCs with \$50 billion or more in consolidated total assets (like PNC). These rules require covered BHCs to, among other things, conduct internal liquidity stress tests over a range of time horizons, maintain a buffer of highly liquid assets sufficient to meet projected net outflows under the BHC's 30-day liquidity stress test, and maintain a contingency funding plan that meets detailed requirements.

For additional discussion of regulatory liquidity requirements, please refer to the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report.

Parent Company Liquidity and Dividends. The principal source of our liquidity at the parent company level is dividends from PNC Bank. PNC Bank is subject to various restrictions on its ability to pay dividends to PNC Bancorp, Inc., its direct parent, which is a wholly-owned direct subsidiary of PNC. PNC Bank is also subject to federal laws limiting extensions of credit to its parent holding company and

Table of Contents

non-bank affiliates as discussed in Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report. Further information on bank level liquidity and parent company liquidity and on certain contractual restrictions is also available in the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report, and in Note 10 Borrowed Funds and Note 15 Equity in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Federal Reserve rules provide that a BHC is expected to serve as a source of financial strength to its subsidiary banks and to commit resources to support such banks if necessary. Dodd-Frank requires that the Federal Reserve jointly adopt new rules with the OCC and the FDIC to implement this source of strength requirement. These joint rules have not yet been proposed. Consistent with the “source of strength” policy for subsidiary banks, the Federal Reserve has stated that, as a matter of prudent banking, a BHC generally should not maintain a rate of cash dividends unless its net income available to common shareholders has been sufficient to fully fund the dividends and the prospective rate of earnings retention appears to be consistent with the corporation’s capital needs, asset quality and overall financial condition. Further, in providing guidance to the large BHCs participating in the 2017 CCAR, discussed above, the Federal Reserve stated that it expects capital plans submitted in 2017 to reflect conservative dividend payout ratios and net share repurchase programs, and that requests that imply common dividend payout ratios above 30% of projected after-tax net income available to common shareholders will receive particularly close scrutiny.

The Federal Reserve and the OCC have provided guidance regarding incentive and other elements of compensation provided to executives and other employees at financial services companies they regulate, both as general industry-wide guidance and guidance specific to select larger companies, including PNC. Acting under provisions of Dodd-Frank, the Federal Reserve, the OCC, the FDIC, the SEC and two other regulatory agencies have jointly proposed regulations to, among other things, prohibit incentive-based compensation arrangements that encourage inappropriate risk-taking. These regulations were initially proposed in 2011 and re-proposed in 2016 and have not been finalized, with the timing of final adoption and the form of any final regulations uncertain. Regulation of compensation provided by us to our executives and other employees, whether through guidance or rules and regulations, could hamper our ability to attract and retain quality employees.

Additional Powers Under the GLB Act. The GLB Act permits a qualifying BHC to become a “financial holding company” and thereby engage in, or affiliate with financial companies engaging in, a broader range of activities than would otherwise be permitted for a BHC. Permitted affiliates include securities underwriters and dealers, insurance companies and companies engaged in other activities that are determined by

the Federal Reserve, in consultation with the Secretary of the Treasury, to be “financial in nature or incidental thereto” or are determined by the Federal Reserve unilaterally to be “complementary” to financial activities. We became a financial holding company as of March 13, 2000. In order to be and remain a financial holding company, a BHC and its subsidiary depository institutions must be “well capitalized” and “well managed.” In addition, a financial holding company generally may not engage in a new financial activity authorized by the GLB Act, or acquire a company engaged in such a new activity, if any of its insured depository institutions received a less than Satisfactory rating at its most recent evaluation under the Community Reinvestment Act (CRA). Among other activities, we currently rely on our status as a financial holding company to conduct merchant banking activities and securities underwriting and dealing activities. As subsidiaries of a financial holding company under the GLB Act, our non-bank subsidiaries are generally allowed to conduct new financial activities, and we are generally permitted to acquire non-bank financial companies that have less than \$10 billion in assets, with after-the-fact notice to the Federal Reserve.

In addition, the GLB Act permits qualifying national banks to engage in expanded activities through the formation of a “financial subsidiary.” PNC Bank has filed a financial subsidiary certification with the OCC and currently engages in insurance agency activities through financial subsidiaries. PNC Bank may also generally engage through a financial subsidiary in any activity that is determined to be financial in nature or incidental to a financial activity by the Secretary of the Treasury, in consultation with the Federal Reserve (other than insurance underwriting activities, insurance company investment activities and merchant banking). In order to have a financial subsidiary, a national bank and each of its depository institution affiliates must be and remain “well capitalized” and “well managed.” In addition, a financial subsidiary generally may not engage in a new financial activity authorized by the GLB Act, or acquire a company engaged in such a new financial activity, if the national bank or any of its insured depository institution affiliates received a less than Satisfactory rating at its most recent evaluation under the CRA.

If a financial holding company or a national bank with a financial subsidiary fails to continue to meet the applicable “well capitalized” or “well managed” criteria, the financial holding company or national bank must enter into an agreement with the Federal Reserve or the OCC, respectively, that, among other things, identifies how the capital or management deficiencies will be corrected. Until such deficiencies are corrected, the relevant agency may impose limits or conditions on the activities of the company or bank, and the company or bank may not engage in, or acquire a company engaged in, the types of expanded activities only permissible for a financial holding company or financial subsidiary without prior approval of the relevant agency.

Table of Contents

Volcker Rule. In December 2013, the U.S. banking agencies, SEC and CFTC issued final rules to implement the “Volcker Rule” provisions of Dodd-Frank. The Volcker Rule’s prohibitions and restrictions generally became effective on July 21, 2015. The rules prohibit banks and their affiliates (collectively, banking entities) from trading as principal on a short-term basis in securities, derivatives and certain other financial instruments, but also include several important exclusions and exemptions from this prohibition. These exclusions and exemptions, for example, permit banking entities, subject to a variety of conditions and restrictions, to trade as principal for securities underwriting, market making and risk-mitigating hedging purposes, and to trade in U.S. government and municipal securities. We currently do not expect the proprietary trading aspects of the final rules to have a material effect on our businesses or revenue. However, the limits and restrictions of the Volcker Rule could, depending on the agencies’ approach to interpreting the rules, cause us to forego engaging in hedging or other transactions that it would otherwise undertake in the ordinary course of business and, thus, to some extent, may limit our ability to most effectively hedge our risks, manage our balance sheet or provide products or services to our customers.

The rules also prohibit banking entities from acquiring and retaining ownership interests in, sponsoring, and having certain relationships with private funds (such as, for example, private equity and hedge funds) that would be an investment company for purposes of the Investment Company Act of 1940 but for the exemptions in sections 3(c)(1) or 3(c)(7) of that act (covered funds). Again there are exemptions from these restrictions which themselves are subject to a variety of conditions. Moreover, the rules prohibit banking entities from engaging in permitted trading or covered fund activities if the activity would involve or result in a material conflict of interest between the banking entity and its clients, customers, or counterparties, result in a material exposure by the banking entity to a high-risk asset or a high-risk trading strategy, or pose a threat to the safety and soundness of the banking entity or to the financial stability of the United States. Banking entities, like PNC, that have \$50 billion or more in total assets are required to establish and maintain an enhanced compliance program designed to ensure that the entity complies with the requirements of the final rules.

In July 2016, the Federal Reserve, exercising authority granted by the Volcker Rule, granted all banking entities until July 21, 2017 to conform their investments in, and relationships with, covered funds that were held or existed prior to December 31, 2013 (legacy covered funds) to the requirements of the Volcker Rule. The Federal Reserve also has the ability to provide banking entities up to an additional 5 years to conform investments in and other relationships with covered funds that qualify as “illiquid funds” under the Volcker Rule and the Federal Reserve’s implementing regulation. In February 2017, PNC received such an additional 5 year period, ending on July 21, 2022, to conform or divest its interests in approximately \$300 million illiquid legacy covered funds.

Other Federal Reserve and OCC Regulation and Supervision. Laws and regulations limit the scope of our permitted activities and investments. The federal banking agencies also possess broad powers to take corrective action as deemed appropriate for an insured depository institution and its holding company, and the Federal Reserve and the OCC have the ability to take enforcement action against PNC and PNC Bank, respectively, to prevent and remedy acts and practices that the agencies determine to be unfair or deceptive.

Moreover, examination ratings of “3” or lower, lower capital ratios than peer group institutions, regulatory concerns regarding management, controls, assets, operations or other factors, can all potentially result in practical limitations on the ability of a bank or BHC to engage in new activities, grow, acquire new businesses, repurchase its stock or pay dividends, or to continue to conduct existing activities. The OCC, moreover, has established certain heightened risk management and governance standards for large banks, including PNC Bank, as enforceable guidelines under section 39 of the Federal Deposit Insurance Act (FDI Act). The guidelines, among other things, establish minimum standards for the design and implementation of a risk governance framework, describe the appropriate risk management roles and responsibilities of front line units, independent risk management, internal audit, and the board of directors, and provide that a covered bank should have a comprehensive written statement that articulates its risk appetite and serves as a basis for the framework (a risk appetite statement). If the OCC determines that a covered national bank is not in compliance with these or other guidelines established under section 39 of the FDI Act (including the guidelines relating to information security standards), the OCC may require the bank to submit a corrective action plan and may initiate enforcement action against the bank if an acceptable plan is not submitted or the bank fails to comply with an approved plan.

Sections 23A and 23B of the Federal Reserve Act and the Federal Reserve’s implementing regulation, Regulation W, place quantitative and qualitative restrictions on covered transactions between a bank and its affiliates (for example between PNC Bank, on the one hand, and PNC and its nonbank subsidiaries, on the other hand). In general, section 23A and Regulation W limit the total amount of covered transactions between a bank and any single affiliate to 10 percent of the bank’s capital stock and surplus, limit the total amount of covered transactions between a bank and all its affiliates to 20 percent of the bank’s capital stock and surplus, prohibit a bank from purchasing low-quality assets from an affiliate, and require certain covered transactions to be secured with prescribed amounts of collateral. Section 23B generally requires that transactions between a bank and its affiliates be on terms that are at least as favorable to the bank as the terms that would apply in comparable transactions between the bank and a third party. Dodd-Frank amended section 23A of the Federal Reserve Act to include as a covered transaction the credit exposure of a

Table of Contents

bank to an affiliate arising from a derivative transaction with the affiliate. The Federal Reserve has yet to propose rules to implement these revisions.

The Federal Reserve's prior approval is required whenever we propose to acquire all or substantially all of the assets of any bank, to acquire direct or indirect ownership or control of more than 5% of any class of voting securities of any bank or BHC, or to merge or consolidate with any other BHC. The BHC Act and other federal law enumerates the factors the Federal Reserve must consider when reviewing the merger of BHCs, the acquisition of banks, or the acquisition of voting securities of a bank or BHC. These factors include the competitive effects of the proposal in the relevant geographic markets; the financial and managerial resources and future prospects of the companies and banks involved in the transaction; the effect of the transaction on the financial stability of the United States; the organizations' compliance with anti-money laundering laws and regulations; the convenience and needs of the communities to be served; and the records of performance under the CRA of the insured depository institutions involved in the transaction. The Federal Reserve's prior approval is also required, and similar factors are considered, to acquire direct or indirect ownership or control of more than 5% of any class of voting securities of a savings association or savings and loan holding company, or to merge or consolidate with a savings and loan holding company. In cases involving interstate bank acquisitions, the Federal Reserve also must consider the concentration of deposits nationwide and in certain individual states. Under Dodd-Frank, a BHC is generally prohibited from merging or consolidating with, or acquiring, another company if the resulting company's liabilities upon consummation would exceed 10% of the aggregate liabilities of the U.S. financial sector (including the U.S. liabilities of foreign financial companies). In extraordinary cases, the FSOC, in conjunction with the Federal Reserve, could order the break-up of financial firms that are deemed to present a grave threat to the financial stability of the United States. OCC prior approval is required for PNC Bank to acquire another insured bank or savings association by merger or to acquire deposits or substantially all of the assets of such institutions. In deciding whether to approve such a transaction, the OCC is required to consider factors similar to those that must be considered by the Federal Reserve in connection with the acquisition of a bank or BHC. Approval of the FDIC is required to merge a nonbank entity into PNC Bank. Our ability to grow through acquisitions or reorganize our operations could be limited by these approval requirements.

At December 31, 2016, PNC Bank had an "Outstanding" rating with respect to the CRA.

Based on the Federal Reserve's interpretation of the BHC Act, the Federal Reserve has indicated that it considers BlackRock to be a subsidiary of PNC for purposes of the BHC Act due to PNC's current and historical ownership interest in, and other relationships with, BlackRock and, thus, subject to the supervision and regulation of the Federal Reserve.

FDIC Insurance and Related Matters. PNC Bank is insured by the FDIC and subject to deposit premium assessments. Regulatory matters could increase the cost of FDIC deposit insurance premiums to an insured bank as FDIC deposit insurance premiums are "risk based." Therefore, higher fee percentages would be charged to banks that have lower capital ratios or higher risk profiles. These risk profiles take into account, among other things, weaknesses that are found by the primary banking regulator through its examination and supervision of the bank and the bank's holdings of assets or liabilities classified as higher risk by the FDIC. A negative evaluation by the FDIC or a bank's primary federal banking regulator could increase the costs to a bank and result in an aggregate cost of deposit funds higher than that of competing banks in a lower risk category.

Federal banking laws and regulations also apply a variety of requirements or restrictions on insured depository institutions with respect to brokered deposits. For instance, only a "well capitalized" insured depository institution may accept brokered deposits without prior regulatory approval. In addition, brokered deposits are generally subject to higher outflow assumptions than other types of deposits for purposes of the LCR.

Dodd-Frank mandated an increase in the Designated Reserve Ratio (the balance in the Deposit Insurance Fund divided by estimated insured deposits) from 1.15% to 1.35% by September 30, 2020, and required that insured depository institutions with \$10 billion or more in total assets, such as PNC, bear the cost of the increase. As a result, the FDIC adopted rules that impose a deposit insurance assessment surcharge (Surcharge) on insured depository institutions with total consolidated assets of \$10 billion or more (including PNC Bank), which became effective on July 1, 2016. The Surcharge will continue in effect until the reserve ratio reaches 1.35 percent (estimated by the FDIC to occur before the end of 2018).

Recovery and Resolution Planning. Dodd-Frank requires BHCs that have \$50 billion or more in assets, such as PNC, to periodically submit to the Federal Reserve and the FDIC a resolution plan that includes, among other things, an analysis of how the company could be resolved in a rapid and orderly fashion if the company were to fail or experience material financial distress. The Federal Reserve and the FDIC may jointly impose restrictions on a covered BHC, including additional capital requirements or limitations on growth, if the agencies jointly determine that the company's plan is not credible or would not facilitate a rapid and orderly resolution of the company under the U.S. Bankruptcy Code (or other applicable resolution framework), and additionally could require the company to divest assets or take other actions if the company did not submit an acceptable resolution plan within two years after any such restrictions were imposed. The FDIC also requires large insured depository institutions, including PNC Bank, to periodically submit a resolution plan to the FDIC that includes, among other things, an analysis of

Table of Contents

how the institution could be resolved under the FDI Act in a manner that protects depositors and limits losses or costs to creditors of the bank in accordance with the FDI Act. Depending on how the agencies conduct their review of the resolution plans submitted by PNC and PNC Bank, these requirements could affect the ways in which PNC structures and conducts its business and result in higher compliance and operating costs. PNC and PNC Bank are required to submit their next resolution plans by December 31, 2017.

The OCC has adopted final enforceable guidelines under section 39 of the FDI Act that establish standards for recovery planning for insured national banks with average total consolidated assets of \$50 billion or more, including PNC Bank. These guidelines require a covered bank to develop and maintain a recovery plan that, among other things, identifies a range of options that could be undertaken by the covered bank to restore its financial strength and viability should identified triggering events occur. For PNC Bank the compliance date for these guidelines is January 1, 2018. The recovery plan guidelines are enforceable in the same manner as the other guidelines the OCC has established under section 39 of the FDI Act.

CFPB Regulation and Supervision. Dodd-Frank gives the CFPB authority to examine PNC and PNC Bank for compliance with a broad range of federal consumer financial laws and regulations, including the laws and regulations that relate to deposit products, credit card, mortgage, automobile and other consumer loans, and other consumer financial products and services we offer. The CFPB also has the power to issue regulations and take enforcement actions to prevent and remedy acts and practices relating to consumer financial products and services that it deems to be unfair, deceptive or abusive, and to impose new disclosure requirements for any consumer financial product or service. In addition to these authorities, on July 21, 2011, and pursuant to Dodd-Frank, the CFPB assumed authorities under other consumer financial laws in effect on that date governing the provision of consumer financial products and services.

The CFPB has engaged in extensive rulemaking activities, including adopting comprehensive new rules on mortgage related topics required under Dodd-Frank, including borrower ability-to-repay and qualified mortgage standards, mortgage servicing standards and loan originator compensation standards. In October 2015, broad new regulations took effect that substantially revised the disclosures we provide to prospective residential mortgage customers. These regulations, among other things, require the provision of new disclosures near the time a prospective borrower submits an application and three days prior to closing of a mortgage loan. The CFPB is also engaged or expected to engage in rulemakings that impact products and services offered by PNC Bank, including regulations affecting prepaid cards, overdraft fees charged on deposit accounts and arbitration and class-action waiver provisions included in customer account agreements. If adopted, it is possible that CFPB regulations in

these or other areas could reduce the fees that we receive, alter the way we provide our products and services, or expose us to greater private litigation risks.

Securities and Derivatives Regulation

Our registered broker-dealer and investment adviser subsidiaries are subject to rules and regulations promulgated by the SEC.

Several of our subsidiaries are registered with the SEC as investment advisers and may provide investment advisory services to clients, other of our affiliates or related entities, including registered investment companies.

Broker-dealer subsidiaries are registered with the SEC and subject to the requirements of the Securities Exchange Act of 1934 and related regulations. The Financial Industry Regulatory Authority (FINRA) is the primary self-regulatory organization for our registered broker-dealer subsidiaries. Investment adviser subsidiaries are subject to the requirements of the Investment Advisers Act of 1940 and related regulations. Our investment adviser subsidiary that serves as adviser to registered investment companies is also subject to the requirements of the Investment Company Act of 1940 and related regulations. Our broker-dealer and investment adviser subsidiaries also are subject to additional regulation by states or local jurisdictions.

Over the past several years, the SEC and other regulatory agencies have increased their focus on the asset management, mutual fund and broker-dealer industries. Congress and the SEC have adopted regulatory reforms and are considering additional reforms that have increased, and are likely to continue to increase, the extent of regulation of the mutual fund, investment adviser and broker-dealer industries and impose additional compliance obligations and costs on our subsidiaries involved with those industries. Under provisions of the federal securities laws applicable to broker-dealers, investment advisers and registered investment companies and their service providers, a determination by a court or regulatory agency that certain violations have occurred at a company or its affiliates can result in fines, restitution, a limitation on permitted activities, disqualification to continue to conduct certain activities and an inability to rely on certain favorable exemptions. Certain types of infractions and violations also can affect our ability to expeditiously issue new securities into the capital markets. In addition, certain changes in the activities of a broker-dealer require approval from FINRA, and FINRA takes into account a variety of considerations in acting upon applications for such approval, including internal controls, capital levels, management experience and quality, prior enforcement and disciplinary history and supervisory concerns.

Title VII of Dodd-Frank imposes comprehensive and significant regulations on the activities of financial institutions that are active in the U.S. over-the-counter derivatives and

Table of Contents

foreign exchange markets. Title VII was enacted to (i) address systemic risk issues, (ii) bring greater transparency to the derivatives markets, (iii) provide enhanced disclosures and protection to customers, and (iv) promote market integrity. Among other things, Title VII: (i) requires the registration of both “swap dealers” and “major swap participants” with one or both of the CFTC (in the case of non security-based swaps) and the SEC (in the case of security-based swaps); (ii) requires that most standardized swaps be centrally cleared through a regulated clearing house and traded on a centralized exchange or swap execution facility; (iii) subjects swap dealers and major swap participants to capital and margin requirements in excess of historical practice; (iv) subjects swap dealers and major swap participants to comprehensive new recordkeeping and real-time public reporting requirements; (v) subjects swap dealers and major swap participants to new business conduct requirements, including the provision of daily marks to counterparties and disclosing to counterparties (pre-execution) the material risks, material incentives, and any conflicts of interest associated with their swap; (vi) imposes special duties on swap dealers and major swap participants when transacting a swap with a “special entity” (e.g., governmental agency (federal, state or local) or political subdivision thereof, pension plan or endowment); and (vii) effective March 1, 2017, will impose variation margin requirements on swaps that are not centrally cleared through a regulated clearing house.

As PNC Bank is registered as a swap dealer with the CFTC, it is subject to the regulations and requirements imposed on registered swap dealers, and the CFTC (and for certain delegated responsibilities, the National Futures Association) has a meaningful supervisory role with respect to PNC Bank’s derivatives and foreign exchange businesses. Because of the limited volume of our security-based swap activities, PNC Bank has not registered with the SEC as a security-based swap dealer. The regulations and requirements applicable to swap dealers will collectively impose implementation and ongoing compliance burdens on PNC Bank and introduces additional legal risks (including as a result of newly applicable anti-fraud and anti-manipulation provisions and private rights of action).

BlackRock has subsidiaries in securities and related businesses subject to SEC, other governmental agencies, state, local and FINRA regulation, and a federally chartered nondepository trust company subsidiary subject to supervision and regulation by the OCC. For additional information about the regulation of BlackRock by these agencies and otherwise, we refer you to the discussion under the “Regulation” section of Item 1 Business in BlackRock’s most recent Annual Report on Form 10-K, which may be obtained electronically at the SEC’s website at www.sec.gov.

Regulations of Other Agencies

In addition to regulations issued by the federal banking, securities and derivatives regulators, we also are subject to regulations issued by other federal agencies with respect to

certain financial products and services we offer. For example, certain of our fiduciary and investment management activities are subject to regulations issued by the Department of Labor (DOL) under the Employee Retirement Income Security Act of 1974 (ERISA), as amended, and certain of our student lending and servicing activities are subject to regulation by the Department of Education. The DOL has issued final rules expanding the definition of “investment advice” related to retirement accounts and certain other accounts that are subject to DOL interpretive authority. The rule will increase the scope of activities that give rise to fiduciary status under ERISA and the Internal Revenue Code. The rules, which will primarily apply to aspects of our retail and asset management business lines, require new disclosures, development of policies and procedures, and contractual obligations for some account types, among other things. The rules are currently scheduled to take effect on April 10, 2017 with a transition period between April 10, 2017 and January 1, 2018 during which time reduced requirements apply. Full compliance is currently required on January 1, 2018. A presidential memorandum issued on February 3, 2017 directed the DOL to review the rules to determine whether, among other things, the rules harm investors or increase costs. In a statement issued that same day, the DOL indicated that it is considering its legal options to delay the rules’ applicability date. Whether and how these developments may impact the April 10, 2017 applicability date remains unclear.

Competition

We are subject to intense competition from other regulated banking organizations, as well as various other types of financial institutions and non-bank entities that can offer a number of similar products and services without being subject to bank regulatory supervision and restrictions.

PNC Bank competes for deposits and/or loans with:

- Other commercial banks,
- Savings banks,
- Credit unions,
- Consumer finance companies,
- Leasing companies,
- Other non-bank lenders,
- Financial technology companies,
- Treasury management service companies,
- Insurance companies, and
- Issuers of commercial paper and other securities, including mutual funds.

Our various non-bank businesses engaged in investment banking and alternative investment activities compete with:

- Commercial banks,
- Investment banking firms,
- Collateralized loan obligation (CLO) managers,
- Hedge funds,
- Mutual fund complexes,
- Merchant banks,

Table of Contents

- Insurance companies,
- Private equity firms, and
- Other investment vehicles.

In providing asset management services, our businesses compete with:

- Investment management firms,
- Large banks and other financial institutions,
- Brokerage firms,
- Financial technology companies,
- Mutual fund complexes, and
- Insurance companies.

Loan pricing, structure and credit standards are extremely important in the current environment as we seek to achieve appropriate risk-adjusted returns. Traditional deposit-taking activities are also subject to pricing pressures and to customer migration as a result of intense competition for deposits and investments. Competitors may seek to compete with us through traditional channels (such as physical locations) or primarily through internet or mobile channels. We include here by reference the additional information regarding competition and factors affecting our competitive position included in the Item 1A Risk Factors of this Report.

Employees

Employees totaled 52,006 at December 31, 2016. This total includes 49,360 full-time and 2,646 part-time employees, of which 21,535 full-time and 2,269 part-time employees were employed by our Retail Banking business.

SEC Reports and Corporate Governance Information

We are subject to the informational requirements of the Securities Exchange Act of 1934 (Exchange Act) and, in accordance with the Exchange Act, we file annual, quarterly and current reports, proxy statements, and other information with the SEC. Our SEC File Number is 001-09718. You may read and copy this information at the SEC's Public Reference Room located at 100 F Street NE, Room 1580, Washington, D.C. 20549. You can obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. You can obtain copies of this information by mail from the Public Reference Section of the SEC, 100 F Street NE, Washington, D.C. 20549, at prescribed rates.

The SEC maintains an internet website at www.sec.gov that contains reports, including exhibits, proxy and information statements, and other information about issuers, like us, who file electronically with the SEC. You can also inspect reports, proxy statements and other information about us at the offices of the New York Stock Exchange, 20 Broad Street, New York, New York 10005.

We make our Annual Report on Form 10-K, Quarterly Reports on Form 10-Q, Current Reports on Form 8-K, and amendments to those reports filed with or furnished to the

SEC pursuant to Section 13(a) or 15(d) of the Exchange Act available free of charge on our internet website as soon as reasonably practicable after we electronically file such material with, or furnish it to, the SEC. Our corporate internet address is www.pnc.com and you can find this information at www.pnc.com/secfilings. Shareholders and bondholders may obtain copies of these filings without charge by contacting Shareholder Services at 800-982-7652 or via the online contact form at www.computershare.com/contactus for copies without exhibits, and by contacting Shareholder Relations at 800-843-2206 or via e-mail at investor.relations@pnc.com for copies of exhibits, including financial statement and schedule exhibits where applicable. The interactive data file (XBRL) exhibit is only available electronically.

Information about our Board of Directors and its committees and corporate governance at PNC is available on our corporate website at www.pnc.com/corporategovernance. Our PNC Code of Business Conduct and Ethics is available on our corporate website at www.pnc.com/corporategovernance. In addition, any future amendments to, or waivers from, a provision of the PNC Code of Business Conduct and Ethics that applies to our directors or executive officers (including our principal executive officer, principal financial officer, and principal accounting officer or controller) will be posted at this internet address.

Shareholders who would like to request printed copies of the PNC Code of Business Conduct and Ethics or our Corporate Governance Guidelines or the charters of our Board of Directors's Audit, Nominating and Governance, Personnel and Compensation, or Risk Committees (all of which are posted on our corporate website at www.pnc.com/corporategovernance) may do so by sending their requests to PNC's Corporate Secretary at corporate headquarters at The Tower at PNC Plaza, 300 Fifth Avenue, Pittsburgh, Pennsylvania 15222-2401. Copies will be provided without charge to shareholders.

Our common stock is listed on the New York Stock Exchange (NYSE) under the symbol "PNC."

Internet Information

The PNC Financial Services Group, Inc.'s financial reports and information about its products and services are available on the internet at www.pnc.com. We provide information for investors on our corporate website under "About Us – Investor Relations." We use our Twitter account, @pncnews, as an additional way of disseminating to the public information that may be relevant to investors.

We generally post the following under "About Us – Investor Relations" shortly before or promptly following its first use or release: financially-related press releases, including earnings releases, and supplemental financial information, various SEC filings, including annual, quarterly and current reports and proxy statements, presentation materials associated with earnings and other investor conference calls or events, and

Table of Contents

access to live and recorded audio from earnings and other investor conference calls or events. In some cases, we may post the presentation materials for other investor conference calls or events several days prior to the call or event. When warranted, we will also use our website to expedite public access to time-critical information regarding PNC in advance of distribution of a press release or a filing with the SEC disclosing the same information. For earnings and other conference calls or events, we generally include in our posted materials a cautionary statement regarding forward-looking and non-GAAP financial information, and we provide GAAP reconciliations when we include non-GAAP financial information. Where applicable, we provide GAAP reconciliations for such additional information in materials for that event or in materials for other prior investor presentations or in our annual, quarterly or current reports.

We are required to provide additional public disclosure regarding estimated income, losses and pro forma regulatory capital ratios under supervisory and PNC-developed hypothetical severely adverse economic scenarios, as well as information concerning our capital stress testing processes, pursuant to the stress testing regulations adopted by the Federal Reserve and the OCC. We are also required to make certain additional regulatory capital-related public disclosures about our capital structure, risk exposures, risk assessment processes, risk-weighted assets and overall capital adequacy, including market risk-related disclosures, under the regulatory capital rules adopted by the Federal banking agencies. Under these regulations, we may satisfy these requirements through postings on our website, and we have done so and expect to continue to do so without also providing disclosure of this information through filings with the SEC.

Other information posted on our corporate website that may not be available in our filings with the SEC includes information relating to our corporate governance and annual communications from our chairman to shareholders.

Where we have included web addresses in this Report, such as our web address and the web address of the SEC, we have included those web addresses as inactive textual references only. Except as specifically incorporated by reference into this Report, information on those websites is not part hereof.

ITEM 1A – RISK FACTORS

We are subject to a number of risks potentially impacting our business, financial condition, results of operations and cash flows. As a financial services organization, certain elements of risk are inherent in our transactions and operations and are present in the business decisions we make. Thus, we encounter risk as part of the normal course of our business, and we design risk management processes to help manage these risks.

Our success is dependent on our ability to identify, understand and manage the risks presented by our business activities so that we can appropriately balance revenue generation and profitability. We categorize the risks we face as credit, liquidity, capital, market (including interest rate, trading, and investment risk), operational (including operations, compliance (including legal), data management, model, technology and systems, information security, business continuity, and third party risk), strategic and reputational. We discuss our principal risk management processes and, in appropriate places, related historical performance and other metrics in the Risk Management section included in Item 7 of this Report.

The following are the key risk factors that affect us. Any one or more of these risk factors could have a material adverse impact on our business, financial condition, results of operations or cash flows, in addition to presenting other possible adverse consequences, including those described below. These risk factors and other risks we face are also discussed further in other sections of this Report.

Difficult economic conditions or volatility in the financial markets would likely have an adverse effect on our business, financial position and results of operations.

As a financial services company, our business and overall financial performance are vulnerable to the impact of poor economic conditions. Poor economic conditions generally result in reduced business activity, which may decrease the demand for our products and services, can impair the ability of borrowers to repay loans, and may lead to turmoil and volatility in financial markets. Such effects would likely have an adverse impact on financial institutions such as PNC, with the significance of the impact generally depending on the severity of the adverse or recessionary economic conditions.

Even when economic conditions are relatively good or stable, specific economic factors can negatively affect the performance of financial institutions. For example, low commodity prices in the energy sector had an impact in 2016, particularly during the early part of the year.

Political factors can also impact our business through changes in customer behavior or in the types of transactions we seek to pursue, in response to economic instability or market volatility or to proposed or adopted changes in governmental policy resulting from events such as changes in control of Congress, the election of a new President or political events outside the United States that impact the U.S. economy or our customers. In the recent past, uncertainty regarding the ability of Congress and the President collectively to reach agreement on federal budgetary, taxing and spending matters has also created the risk of economic instability or market volatility. Proposed changes in law and policy accompanying the new presidential administration create the possibility of significant impacts on business activity in the United States and globally and provide uncertainty pending efforts to enact them. The impact of such political factors can have an adverse effect on our performance together with that of others in the industry.

Table of Contents

Significant business tax reform is being considered by the new administration and Congress, with a number of proposals having been made. The proposals thus far generally seek to broaden the tax base by eliminating certain deductions and credits in favor of providing lower tax rates for all businesses. It is unknown what specific deductions or credits might be eliminated and it is uncertain the extent corporate tax rates might be reduced. Changes to deductions, credits, and rates could have a material impact on us, either directly or by changing the behavior of our customers.

Given the geographic scope of our business and operations, we are most exposed to problems within the United States economy and financial markets and, within the United States, most exposed to issues in our primary geographic footprint concentrated in the Northeastern, Midwestern and Southeastern United States.

International economic conditions, however, can impact our business and financial performance both directly to the extent of our international business activities and, possibly more significantly, indirectly due to the possibility that poor economic conditions impacting other major economies around the world will have an impact on the United States. For example, a repetition of concerns such as those arising out of the financial crisis of 2007-2009 related to the solvency of several European countries could have an adverse effect on financial markets throughout the world, including those relevant to our business. Currently, the prospect of the United Kingdom's impending exit from the European Union has led to uncertainty regarding the impact on the United Kingdom's economy and capital markets as well as that of the remaining countries in the European Union. It is also possible that other countries might seek to exit the European Union in the future. The extent to which these uncertainties will affect the United States economy and capital markets is unclear.

Other risk factors, presented below, address specific ways in which we may be adversely impacted by economic conditions.

Our business and financial results are subject to risks associated with the creditworthiness of our customers and counterparties.

Credit risk is inherent in the financial services business and results from, among other things, extending credit to customers, purchasing securities, and entering into financial derivative transactions and certain guarantee contracts. Credit risk is one of our most significant risks, particularly given the high percentage of our assets represented directly or indirectly by loans and securities and the importance of lending activity to our overall business. We manage credit risk by assessing and monitoring the creditworthiness of our customers and counterparties, by diversifying our loan portfolio and by investing primarily in high quality securities. Many factors impact credit risk.

A borrower's ability to repay a loan can be adversely affected by several factors, such as business performance, job losses or

health issues. A weak or deteriorating economy and changes in the United States or global markets also could adversely impact the ability of our borrowers to repay outstanding loans. Any decrease in our borrowers' ability to repay loans would result in higher levels of nonperforming loans, net charge-offs, provision for credit losses and valuation adjustments on loans held for sale.

Financial services institutions are interrelated as a result of trading, clearing, lending, counterparty, and other relationships. We have exposure to many different industries and counterparties, and we routinely execute transactions with counterparties in the financial services industry, including brokers and dealers, commercial banks, investment banks, mutual and hedge funds, and other institutional clients. Many of these transactions expose us to credit risk in the event of default of our counterparty or client.

Despite maintaining a diversified loan and securities portfolio, in the ordinary course of business, we may have concentrated credit exposure to a particular person or entity, industry, region or financial market. Loans secured by commercial and residential real estate represent a significant percentage of our overall credit portfolio as well as of the assets underlying our investment securities. Events adversely affecting specific customers or counterparties, industries, regions or financial markets, including a decline in their creditworthiness or overall risk profile, could adversely affect us.

Our credit risk may be exacerbated when collateral held by us to secure obligations to us cannot be realized upon or is liquidated at prices that are not sufficient to recover the full amount of the loan or derivative exposure due us.

We reserve for credit losses through our Allowance for loan and lease losses, with changes in the Allowance for loan and lease losses reflected in Net income through Provision for credit losses. An increase in credit risk would likely lead to an increase in Provision for credit losses with a resulting reduction in our Net income and would increase our Allowance for loan and lease losses.

Our business and financial performance is impacted significantly by market interest rates and movements in those rates. The monetary, tax and other policies of governmental agencies, including the Federal Reserve, over which we have no control, have a significant impact on interest rates and overall financial market performance.

As a result of the high percentage of our assets and liabilities that are in the form of interest-bearing or interest-related instruments, changes in interest rates, in the shape of the yield curve, or in spreads between different market interest rates can have a material effect on our business, our profitability and the value of our financial assets and liabilities. For example:

- Changes in interest rates or interest rate spreads can affect the difference between the interest that we earn on assets and the interest that we pay on liabilities, which impacts our overall net interest income and profitability.

Table of Contents

- Such changes can affect the ability of borrowers to meet obligations under variable or adjustable rate loans and other debt instruments, and can, in turn, affect our loss rates on those assets.
- Such changes may decrease the demand for interest rate-based products and services, including loans and deposit accounts.
- Such changes can also affect our ability to hedge various forms of market and interest rate risk and may decrease the effectiveness of those hedges in helping to manage such risks.
- Movements in interest rates also affect mortgage prepayment speeds and could result in impairments of mortgage servicing assets or otherwise affect the profitability of such assets.
- Increases in interest rates can lower the price we would receive on fixed-rate customer obligations if we were to sell them.

Governmental monetary, tax and other policies, including those of the Federal Reserve, have a significant impact on interest rates and overall financial market performance. These governmental policies can thus affect the activities and results of operations of banking companies such as PNC. An important function of the Federal Reserve is to regulate the national supply of bank credit and certain interest rates. The actions of the Federal Reserve influence the rates of interest that we charge on loans and that we pay on borrowings and interest-bearing deposits and can also affect the value of our on-balance sheet and off-balance sheet financial instruments. Both due to the impact on rates and by controlling access to direct funding from the Federal Reserve Banks, the Federal Reserve's policies also significantly influence our cost of funding. We cannot predict the nature or timing of future changes in monetary, tax and other policies or the precise effects that they may have on our activities and financial results. The very low interest rate environment that has prevailed since the financial crisis has had a negative impact on our ability to increase our net interest income. Although the Federal Reserve increased its benchmark interest rate in December 2015 and again in December 2016, ending approximately seven years of near zero rates, and is expected to continue raising rates through 2017, there is no assurance that it will do so. The failure on the part of the Federal Reserve to continue raising rates could affect consumer and business behavior in ways that are adverse to us in addition to continuing to affect our net interest income. Even if the Federal Reserve continues to increase the interest rates it directly influences, there may be a prolonged period before interest rates return to more historically typical levels.

In addition, monetary and fiscal policy actions by governmental and regulatory decision makers in other countries or in the European Union could have an impact on global interest rates, affecting rates in the United States as well as rates on instruments denominated in currencies other than the United States dollar, any of which could have one or

more of the potential effects on us described above. While we have not experienced negative interest rates in the United States, some central banks in Europe and Asia have cut interest rates below zero. It is unclear what the impact of these actions will be. If U.S. interest rates were to fall below zero, it could significantly affect our businesses and results of operation.

Our business and financial performance are vulnerable to the impact of changes in the values of financial assets.

As a financial institution, a substantial majority of our assets and liabilities are financial in nature (items such as loans, securities, servicing rights, deposits and borrowings). Such assets and liabilities will fluctuate in value, often significantly, due to movements in the financial markets or market volatility as well as developments specific to the asset or liability in question. Credit-based assets and liabilities will fluctuate in value due to changes in the perceived creditworthiness of borrowers or other counterparties and also due to changes in market interest rates.

In addition, changes in loan prepayment speeds, usually based on fluctuations in market interest rates, could adversely impact the value of our mortgage servicing rights. Additionally, the underlying value of assets under lease or securing an obligation may decrease due to supply and demand for the asset or the condition of the asset. This could cause our recorded lease value or the value of the secured obligation to decline.

In many cases, we mark our assets and liabilities to market on our financial statements, either through our Net income and Retained earnings or through adjustments to Accumulated other comprehensive income on our balance sheet. We may need to record losses in the value of financial assets even where our expectation of realizing the face value of the underlying instrument has not changed.

In addition, asset management revenue is primarily based on a percentage of the value of the assets being managed and thus is impacted by general changes in market valuations. Thus, although we are not directly impacted by changes in the value of such assets, decreases in the value of those assets would affect related fee income.

Our success depends on our ability to attract and retain customers for our products and services, which may be negatively impacted by a lack of consumer and business economic confidence as well as our actions, including our ability to anticipate and satisfy customer demands for products and services.

As a financial institution, our performance is subject to risks associated with the loss of customer confidence and demand. Economic and market developments may affect consumer and business confidence levels. If customers lose confidence due to a weak or deteriorating economy or uncertainty surrounding

Table of Contents

the future of the economy, the demand for our products and services could suffer. We may also fail to attract or retain customers if we are unable to develop and market products and services that meet evolving customer needs or demands or if we are unable to deliver them effectively and securely to our customers, particularly to the extent that our competitors are better able to do so.

News or other publicity that impairs our reputation, or the reputation of our industry generally, also could cause a loss of customers. Financial companies are highly vulnerable to reputational damage when they are found to have harmed customers, particularly retail customers, through conduct that is illegal or viewed as unfair, deceptive, manipulative or otherwise wrongful.

If we fail to attract and retain customers, demand for our loans and other financial products and services could decrease and we could experience adverse changes in payment patterns. We could lose interest income from a decline in credit usage and fee income from a decline in product sales, investments and other transactions. Our customers could remove money from checking and savings accounts and other types of deposit accounts in favor of other banks or other types of investment products. Deposits are a low cost source of funds. Therefore, losing deposits could increase our funding costs and reduce our net interest income.

The United States is just starting to emerge from an extended period of very low interest rates. Very low interest rates decrease the attractiveness of alternatives to bank checking and savings accounts, which may lack deposit insurance and some of the convenience associated with more traditional banking products and which may no longer be able to offer much higher interest rates. If interest rates were to rise significantly, customers may be less willing to maintain balances in non-interest bearing or low interest bank accounts, which could result in a relatively higher cost of funds to us. This could also result in a loss of fee income.

In our asset management business, investment performance is an important factor influencing the level of assets that we manage. Poor investment performance could impair revenue and growth as existing clients might withdraw funds in favor of better performing products. Additionally, the ability to attract funds from existing and new clients might diminish. Overall economic conditions may limit the amount that customers are able or willing to invest as well as the value of the assets they do invest. The failure or negative performance of products of other financial institutions could lead to a loss of confidence in similar products offered by us without regard to the performance of our products. Such a negative contagion could lead to withdrawals, redemptions and liquidity issues in such products and have a material adverse impact on our assets under management and asset management revenues and earnings.

As a regulated financial services firm, we are subject to numerous governmental regulations, and the financial services industry as a whole continues to be subject to significant regulatory reform initiatives in the United States and elsewhere.

PNC is a bank holding company (BHC) and a financial holding company and is subject to numerous governmental regulations involving both its business and organization.

Our businesses are subject to regulation by multiple banking, consumer protection, securities and derivatives regulatory bodies. In recent years, we, together with the rest of the financial services industry, have faced intense regulation, with many new regulatory initiatives and vigorous oversight and enforcement on the part of numerous regulatory bodies. Legislatures and regulators have pursued a broad array of initiatives intended to promote the safety and soundness of financial institutions, financial market stability, the transparency and liquidity of financial markets, and consumer and investor protection. As a result, we have experienced significantly increased compliance costs and have needed to adjust our business practices to accommodate new requirements and limitations, impacting some of our revenue opportunities. We expect these effects to continue.

Applicable laws and regulations restrict our ability to repurchase stock or to receive dividends from subsidiaries that operate in the banking and securities businesses and impose capital adequacy requirements. PNC's ability to service its obligations and pay dividends to shareholders is largely dependent on the receipt of dividends and advances from its subsidiaries, primarily PNC Bank. The Federal Reserve requires a BHC to act as a source of financial and managerial strength for its subsidiary banks. The Federal Reserve could require PNC to commit resources to PNC Bank when doing so is not otherwise in the interests of PNC or its shareholders or creditors.

Applicable laws and regulations also restrict permissible activities and investments and require compliance with provisions designed to protect loan, deposit, brokerage, fiduciary, mutual fund and other customers, and for the protection of customer information, among other things. We are also subject to laws and regulations designed to combat money laundering, terrorist financing, and transactions with persons, companies or foreign governments designated by U.S. authorities.

Although the new presidential administration has indicated an intent to pursue the regulation of the financial services industry differently than was the case under the previous administration, there is significant uncertainty regarding the direction this presidential administration will take and its ability to implement its policies and objectives, as well as the ultimate impact on potential new regulatory initiatives and the enforcement of existing laws and regulations.

[Table of Contents](#)

There are currently pending numerous additional regulatory proposals, and other new initiatives are likely to be pursued in the future. The implementation of new regulatory requirements and limitations could further increase our compliance costs and the risks associated with non-compliance and could affect our ability to pursue or take full advantage of some desirable business opportunities.

A failure to comply, or to have adequate policies and procedures designed to comply, with regulatory requirements could expose us to damages, fines and regulatory penalties and other regulatory actions or consequences, such as limitations on activities otherwise permissible for us or additional requirements for engaging in new activities, and could also injure our reputation with customers and others with whom we do business.

See Supervision and Regulation in Item 1 of this Report for more information concerning the regulation of PNC and recent initiatives to reform financial institution regulation, including some of the matters discussed in this Risk Factor. Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report also discusses some of the regulation applicable to us.

Current and likely future capital and liquidity standards will result in banks and bank holding companies needing to maintain more and higher quality capital and greater liquidity than has historically been the case.

We are subject to regulatory capital and liquidity requirements established by the Federal Reserve and the OCC, and discuss these requirements and standards in the Supervision and Regulation section included in Item 1 of this Report and the Liquidity and Capital Management portion of the Risk Management section of Item 7 of this Report.

The regulatory capital requirements applicable to banks and BHCs have undergone, and continue to undergo, significant changes. For example, the final rules adopted by the U.S. banking agencies in July 2013 to implement the new international guidelines for determining regulatory capital established by the Basel Committee known as “Basel III,” as well as to implement certain provisions of Dodd-Frank, fundamentally altered the U.S. regulatory capital requirements for U.S. BHCs and banks. Significant parts of these rules are now effective for us, although as a result of the staggered effective dates of the rules many provisions are being phased-in over a period of years, with the rules generally to be fully phased-in as of January 1, 2019. The Basel Committee, moreover, continues to consider additional, significant changes to the international capital framework for banking organizations, including modifications that would significantly alter the international frameworks governing the market risk capital requirements for trading positions and the standardized risk weighting approach for credit risk, establish a capital floor for banking organizations subject to the advanced approaches

for the risk weighting of assets, modify the framework for operational risk under the advanced approaches, modify the treatment of securitization positions, and seek to enhance the transparency and consistency of capital requirements amongst banks and jurisdictions. It is unclear how these or other initiatives by the Basel Committee may be finalized and implemented in the United States and, thus, we are unable to estimate what potential impact such initiatives may have on us.

The liquidity standards applicable to large U.S. banking organizations also are expected to be supplemented in the coming years. For example, the Basel Committee, in October 2014, released the final framework for the NSFR standard, which is designed to ensure that banking organizations maintain a stable, long-term funding profile in relation to their asset composition and off-balance sheet activities. Under that framework, the NSFR would take effect as a minimum regulatory standard on January 1, 2018. In May 2016, the U.S. banking agencies proposed rules to implement the NSFR but these rules have not yet been finalized. Thus, the potential impact of the rules on us remains unclear.

The need to maintain more and higher quality capital, as well as greater liquidity, going forward than historically has been required could limit our business activities, including lending, and our ability to expand, either organically or through acquisitions. It could also result in us taking steps to increase our capital that may be dilutive to shareholders, being limited in our ability to pay dividends or otherwise return capital to shareholders, or selling or refraining from acquiring assets, for which the capital requirements appear inconsistent with the assets’ underlying risks. In addition, the new liquidity standards require us to maintain holdings of highly liquid short-term investments, thereby reducing our ability to invest in longer-term or less liquid assets even if more desirable from a balance sheet or interest rate risk management perspective. Moreover, although these new requirements are being phased in over time, U.S. federal banking agencies have been taking into account expectations regarding the ability of banks to meet these new requirements, including under stressed conditions, in approving actions that represent uses of capital, such as dividend increases, share repurchases and acquisitions. In addition, PNC, as a BHC that is subject to the advanced approaches for regulatory capital purposes, is subject to a higher LCR requirement than other BHCs that have more than \$50 billion in total assets but are not subject to the advanced approaches. Until the scope and terms of pending or future rulemakings relating to capital, liquidity, or liability composition are known, the extent to which such rules may apply to us and the potential impact of such rules on us will remain uncertain.

We operate in a highly competitive environment, in terms of the products and services we offer and the geographic markets in which we conduct business, as well as in our labor markets where we compete for talented employees. Competition could adversely impact our customer

acquisition, growth and retention, as well as our credit spreads and product pricing, causing us to lose market share and deposits and revenues.

We are subject to intense competition from various financial institutions as well as from non-bank entities that engage in many similar activities without being subject to bank regulatory supervision and restrictions. This competition is described in Item 1 of this Report under “Competition.” Competition in our industry could intensify as a result of the increasing consolidation of financial services companies, in connection with current industry conditions or otherwise.

In all, the principal bases for competition are pricing (including the interest rates charged on loans or paid on interest-bearing deposits), product structure, the range of products and services offered, and the quality of customer service (including convenience and responsiveness to customer needs and concerns). The ability to access and use technology is an increasingly important competitive factor in the financial services industry, and it is a critically important component to customer satisfaction as it affects our ability to deliver the products and services that customers desire and in a manner that they find convenient and attractive. Banks generally are facing the risk of increased competition from products and services offered by non-bank financial technology companies, particularly related to payment services and lending.

Another increasingly competitive factor in the financial services industry is the competition to attract and retain talented employees across many of our business and support areas. This competition leads to increased expenses in many business areas and can also cause us to not pursue certain business opportunities. Limitations on the manner in which regulated financial institutions can compensate their officers and employees may make it more difficult for regulated financial institutions to compete with unregulated financial institutions for talent.

A failure to adequately address the competitive pressures we face could make it harder for us to attract and retain customers across our businesses. On the other hand, meeting these competitive pressures could require us to incur significant additional expense or to accept risk beyond what we would otherwise view as desirable under the circumstances. In addition, in our interest rate sensitive businesses, pressures to increase rates on deposits or decrease rates on loans could reduce our net interest margin with a resulting negative impact on our net interest income.

We depend on the effectiveness and integrity of our employees, systems and controls to manage operational risks.

We are a large organization that offers a wide variety of products to a broad and diverse group of customers. We are dependent on our employees, systems, and controls to assure that we properly enter into, record and manage processes,

transactions and other relationships with customers, suppliers and other parties with whom we do business, as well as to assure that we identify and mitigate the risks that are inherent in these relationships.

We necessarily rely on our employees or, in some cases, employees of third parties to perform these tasks and manage the resulting risks. As a result, we are vulnerable to human error, misconduct or malfeasance, leading potentially to operational breakdowns or other errors. In addition, when we change processes or procedures or introduce new products or services, we may fail to adequately identify or manage operational risks resulting from such changes. We have taken measures to manage and mitigate this risk, but our controls may not be adequate to prevent problems resulting from human involvement in our business, including risks associated with the design, operation, and monitoring of automated systems.

Errors by our employees or those of third parties, whether accidental, intentional or fraudulent, or other failures of our systems and controls could result in customer remediation costs, regulatory fines or penalties, litigation or enforcement actions, or limitations on our business activities. They also could result in damage to our reputation and to our ability to attract and retain customers, with the reputational impact likely greater to the extent that the mistakes or failures are pervasive, long-standing or affect a significant number of customers, particularly retail consumers.

It is not possible to prevent all errors of these types, particularly to the extent that human activity is involved, and over the last several years, other financial services organizations have been reported to have failed to prevent, identify or respond to a broad range of operational risk matters with resulting consequences to the other organizations of these types described above. Recent examples include unauthorized account openings, assessment of inappropriate fees, and failure to report information timely to the government.

We depend on technology, both internally and through third-parties, to conduct our business and could suffer a material adverse impact from interruptions in the effective operation of, or security breaches affecting, those systems.

As a large financial company, we handle a substantial volume of customer and other financial transactions on a continuous basis. As a result, we rely heavily on information systems to conduct our business and to process, record, and monitor our transactions and those of our customers. Over time, we have increased substantially in size, scope and complexity. We have also seen more customer usage of technological solutions for financial needs and higher expectations of customers and regulators regarding effective and safe systems operation. We expect these trends to continue for the foreseeable future. The need to ensure proper functioning and resiliency of these systems has become more challenging, and the costs involved in that effort are greater than ever.

Table of Contents

The risks to these systems result from a variety of factors, both internal and external. In some cases, these factors relate to the potential for bad acts on the part of hackers, criminals, foreign governments or their agents, employees and others, and to some extent will be beyond our ability to prevent. In other cases, our systems could fail to operate as needed, including failures to prevent access in an unauthorized manner, due to factors such as design or performance issues, human error, unexpected transaction volumes, or inadequate measures to protect against unauthorized access or transmissions. We are also at risk for the impact of natural or other disasters, terrorism, international hostilities and the like on our systems or for the effect of outages or other failures involving power, communications, or payment, clearing and settlement systems operated by others. In addition, we face a variety of types of cyber attacks, some of which are discussed in more detail below. Cyber attacks often include efforts to disrupt our ability to provide services or to gain access to, or destroy, confidential or proprietary company and customer information.

We rely on other companies for the provision of a broad range of products and services. Many of these products and services include information systems or involve the use of such systems in connection with providing the products or services. In some cases, these other companies provide the infrastructure that supports communications, payment, clearing and settlement systems, or information processing and storage. These other companies are generally subject to many of the same risks we face with respect to our systems. To the extent we rely on these other companies, we could be adversely affected if they are impacted by system failures, cyber attacks or employee misconduct.

All of these types of events, whether resulting from cyber attacks or other internal or external sources, expose customer and other confidential information to security risks. They also could disrupt our ability to use our accounting, deposit, loan and other systems and could cause errors in transactions or system functionality with customers, vendors or other parties.

In addition, our customers often use their own devices, such as computers, smartphones and tablets, to do business with us and may provide their PNC customer information (including passwords) to a third party in connection with obtaining services from the third party. Although we take steps to provide safety and security for our customers' transactions with us and their customer information to the extent they are utilizing their own devices or providing third parties access to their accounts, our ability to assure such safety and security is necessarily limited.

We are faced with ongoing efforts by others to breach data security at financial institutions or with respect to financial transactions. Some of these involve efforts to enter our systems directly by going through or around our security protections. Others involve the use of schemes such as "phishing" to gain access to identifying customer information, often from customers themselves. Most corporate and commercial

transactions are now handled electronically, and our retail customers increasingly use online access and mobile devices to bank with us. The ability to conduct business with us in this manner depends on the transmission of confidential information, which increases the risk of data security breaches.

In addition, individuals or organizations sometimes flood commercial websites with extraordinarily high volumes of traffic, in what is referred to as a distributed denial of service (DDoS) attack, with the goal of disrupting the ability of commercial enterprises to process transactions and possibly making their websites unavailable to customers for extended periods of time. Starting in late 2012, we and other financial services companies were subject to DDoS attacks, although no customer data has been lost or compromised to this point as a result of such attacks against us, and they have not had a material impact on us. More recently, several major DDoS attacks outside of the US financial services industry have demonstrated an evolution in scope and potential impact of such attacks, including coupling them with other types of attacks and enhancing their impact by exploiting vulnerabilities in "Internet of Things" devices. Although we have made improvements in our security posture with respect to such attacks, we cannot provide assurance that future attacks of this type, or attacks of other types, might not have a greater effect on us, particularly given the evolution in the maliciousness and scale of recent attacks.

As our customers regularly use PNC-issued credit and debit cards to pay for transactions with retailers and other businesses, there is the risk of data security breaches at those other businesses covering PNC account information. When our customers use PNC-issued cards to make purchases from those businesses, card account information may be provided to the business. If the business's systems that process or store card account information are subject to a data security breach, holders of our cards who have made purchases from that business may experience fraud on their card accounts. We may suffer losses associated with reimbursing our customers for such fraudulent transactions on customers' card accounts, as well as for other costs related to data security compromise events, such as replacing cards associated with compromised card accounts. In addition, we provide card transaction processing services to some merchant customers under agreements we have with payment networks such as Visa and MasterCard. Under these agreements, we may be responsible for certain losses and penalties if one of our merchant customers suffers a data security breach.

Over the last few years, several large companies disclosed that they had suffered substantial data security breaches compromising millions of user accounts and credentials. To date, our losses and costs related to these breaches have not been material, but other similar events in the future could be more significant to us.

There have been other recent publicly announced cyber attacks that were not focused on gaining access to credit card

Table of Contents

or user credential information but instead sought access to a range of other types of confidential information including internal emails and other forms of customer financial information. Ransomware attacks have sought to deny access to data and possibly shut down systems and devices maintained by target companies. In a ransomware attack, system data is encrypted or access is otherwise denied, accompanied by a demand for ransom to restore access to the data. To date, we have not been impacted financially by these types of attacks, but attacks on others demonstrate the risks to confidential information and systems operations potentially posed by new and evolving types of cyber attacks.

Methods used by others to attack information systems change frequently (with generally increasing sophistication), often are not recognized until launched against a target, may be supported by foreign governments or other well-financed entities, and may originate from less regulated and remote areas around the world. As a result, we may be unable to address these methods in advance of attacks, including by implementing adequate preventive measures.

In addition to threats from people external to us, insider threats represent a significant risk to us. Insiders, having legitimate access to our systems and the information contained in them, have the easiest opportunity to make inappropriate use of the systems and information. Addressing that risk requires understanding not only how to protect us from unauthorized use and disclosure of data, but also how to engage behavioral analytics to identify potential internal threats before any damage is done.

We have policies, procedures and systems (including business continuity programs) designed to prevent or limit the effect of possible failures, interruptions or breaches in security of information systems. We design our business continuity and other information and technology risk management programs to manage our capabilities to provide services in the case of an event resulting in material disruptions of business activities affecting our employees, facilities, technology or suppliers. We regularly seek to test the effectiveness of and enhance these policies, procedures and systems. Nonetheless, we cannot guarantee the effectiveness of our policies, procedures and systems to protect us in any particular future situation.

Our ability to mitigate the adverse consequences of such occurrences is in part dependent on the quality of our business continuity planning, our ability to understand threats to us from a holistic perspective, and our ability to anticipate the timing and nature of any such event that occurs. The adverse impact of natural and other disasters, terrorist activities, international hostilities and the like could be increased to the extent that there is a lack of preparedness on the part of national or regional governments, including emergency responders, or on the part of other organizations and businesses with which we deal, particularly those on which we depend, some of which we have little or no control over.

In recent years, we have incurred significant expense towards improving the reliability of our systems and their security against external and internal threats. Even with our proactive and defensive measures in place, there remains the risk that one or more adverse events might occur. If one does occur, we might not be able to remediate the event or its consequences timely or adequately, particularly to the extent that it represents a novel or unusual threat. To the extent that the risk relates to products or services provided by others, we seek to engage in due diligence and monitoring to limit the risk, but here, as well, we cannot eliminate it. Should an adverse event affecting another company's systems occur, we may not have indemnification or other protection from the other company sufficient to compensate us or otherwise protect us from the consequences.

The occurrence of any failure, interruption or security breach of any of our information or communications systems, or the systems of other companies on which we rely, could result in a wide variety of adverse consequences to us. This risk is greater if the issue is widespread or results in financial losses to our customers. Possible adverse consequences include damage to our reputation or a loss of customer business. We also could face litigation or additional regulatory scrutiny. Litigation or regulatory actions in turn could lead to liability or other sanctions, including fines and penalties or reimbursement of customers adversely affected by a systems problem or security breach. Even if we do not suffer any material adverse consequences as a result of events affecting us directly, successful attacks or systems failures at other financial institutions could lead to a general loss of customer confidence in financial institutions, including us. Also, systems problems, including those resulting from third party attacks, whether at PNC or at our competitors, would likely increase regulatory and customer concerns regarding the functioning, safety and security of such systems generally. In that case, we would expect to incur even higher levels of costs with respect to prevention and mitigation of these risks.

We continually encounter technological change and we could falter in our ability to remain competitive in this arena.

The financial services industry is continually undergoing rapid technological change with frequent introductions of new technology-driven products and services. Examples at the present time include expanded use of cloud computing, biometric authentication, data protection enhancements, and increased on-line and remote device interaction with customers. The effective use of technology increases efficiency and enables financial institutions to better serve customers and to reduce costs. We have been investing in technology and connectivity to automate functions previously performed manually, to facilitate the ability of customers to engage in financial transactions, and otherwise to enhance the customer experience with respect to our products and services. On the retail side, this has included developments such as

more sophisticated ATMs and expanded access to banking transactions through the internet, smart phones, tablets and other remote devices. These efforts have all been in response to actual and anticipated customer behavior and expectations. Our continued success depends, in part, upon our ability to address the needs of our customers by using technology to provide products and services that satisfy customer demands, including demands for faster and more secure payment services, and create efficiencies in our operations. A failure to maintain or enhance our competitive position with respect to technology, whether because we fail to anticipate customer expectations or because our technological developments fail to perform as desired or are not rolled out in a timely manner, may cause us to lose market share or incur additional expense.

There are risks resulting from the extensive use of models in our business.

We rely on quantitative models to measure risks and to estimate certain financial values. Models may be used in such processes as determining the pricing of various products, grading loans and extending credit, measuring interest rate and other market risks, predicting or estimating losses, assessing capital adequacy, and calculating economic and regulatory capital levels, as well as to estimate the value of financial instruments and balance sheet items. Poorly designed or implemented models present the risk that our business decisions based on information incorporating model output will be adversely affected due to the inadequacy of that information. Also, information we provide to the public or to our regulators based on poorly designed or implemented models could be inaccurate or misleading. Some of the decisions that our regulators make, including those related to capital distributions to our shareholders, could be affected adversely due to their perception that the quality of the models used to generate the relevant information is insufficient.

Our asset and liability valuations and the determination of the amount of loss allowances and impairments taken on our assets are highly subjective. Inaccurate estimates could materially impact our results of operations or financial position.

We must use estimates, assumptions, and judgments when assets and liabilities are measured and reported at fair value. Assets and liabilities carried at fair value inherently result in a higher degree of financial statement volatility. Changes in underlying factors or assumptions in any of the areas underlying our estimates could materially impact our future financial condition and results of operations. During periods of market disruption, it may be more difficult to value certain assets if trading becomes less frequent and/or market data becomes less observable. There may be certain asset classes that were historically in active markets with significant observable data that rapidly become illiquid due to market volatility, a loss in market confidence or other factors. Further, rapidly changing and unprecedented market conditions in any

particular market could materially impact the valuation of assets as reported within our consolidated financial statements.

The determination of the amount of loss allowances and asset impairments varies by asset type and is based upon our periodic evaluation and assessment of known and inherent risks associated with the respective asset class. Management updates its evaluations regularly and reflects changes in allowances and impairments in operations as such evaluations are revised. Although we have policies and procedures in place to determine loss allowance and asset impairments, due to the substantial subjective nature of this area, there can be no assurance that our management has accurately assessed the level of impairments taken and allowances reflected in our financial statements. Furthermore, additional impairments may need to be taken or allowances provided for in the future. Historical trends may not be indicative of future impairments or allowances.

Our business and financial results could be impacted materially by adverse results in legal proceedings.

Many aspects of our business involve substantial risk of legal liability. We have been named or threatened to be named as defendants in various lawsuits arising from our business activities (and in some cases from the activities of companies we have acquired). In addition, we are regularly the subject of governmental investigations and other forms of regulatory inquiry. We also are at risk when we have agreed to indemnify others for losses related to legal proceedings, including litigation and governmental investigations and inquiries, they face, such as in connection with the sale of a business or assets by us. Since the financial crisis of 2007-2009, mortgage lending, servicing, sales, securitization and other aspects of the mortgage business have been a significant contributor to our overall legal risk, which may continue going forward, particularly given additional borrower protections provided as part of regulatory initiatives to reform the mortgage industry. The results of these legal proceedings could lead to significant monetary damages or penalties, restrictions on the way in which we conduct our business, or reputational harm.

Although we establish accruals for legal proceedings when information related to the loss contingencies represented by those matters indicates both that a loss is probable and that the amount of loss can be reasonably estimated, we do not have accruals for all legal proceedings where we face a risk of loss. In addition, due to the inherent subjectivity of the assessments and unpredictability of the outcome of legal proceedings, amounts accrued may not represent the ultimate loss to us from the legal proceedings in question. Thus, our ultimate losses may be higher, and possibly significantly so, than the amounts accrued for legal loss contingencies. We discuss further the unpredictability of legal proceedings and describe certain of our pending legal proceedings in Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report.

We grow our business in part by acquiring other financial services companies or assets from time to time, and these acquisitions present a number of risks and uncertainties related both to the acquisition transactions themselves and to the integration of the acquired businesses into PNC after closing.

Acquisitions of other financial services companies, financial assets and related deposits and other liabilities present risks and uncertainties to us in addition to those presented by the nature of the business acquired.

In general, acquisitions may be substantially more expensive or take longer to complete than anticipated (including unanticipated costs incurred in connection with the integration of the acquired company). Anticipated benefits (including anticipated cost savings and strategic gains, for example resulting from being able to offer product sets to a broader potential customer base) may be significantly harder or take longer to achieve than expected or may not be achieved in their entirety as a result of unexpected factors or events.

Our ability to achieve anticipated results from acquisitions is often dependent also on the extent of credit losses in the acquired loan portfolios and the extent of deposit attrition, which are, in part, related to the state of economic and financial markets.

Also, litigation and governmental investigations that may be pending at the time of the acquisition or be filed or commenced thereafter, as a result of an acquisition or otherwise, could impact the timing or realization of anticipated benefits to us. Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report describes several legal proceedings related to pre-acquisition activities of companies we have acquired, including National City. Other such legal proceedings may be commenced in the future.

Integration of an acquired company's business and operations into PNC, including conversion of the acquired company's different systems and procedures, may take longer than anticipated or be more costly than anticipated or have unanticipated adverse results relating to the acquired company's or our existing businesses. In some cases, acquisitions involve our entry into new businesses or new geographic or other markets, and these situations also present risks and uncertainties in instances where we may be inexperienced in these new areas.

Our ability to analyze the risks presented by prospective acquisitions, as well as our ability to prepare in advance of closing for integration, depends, in part, on the information we can gather with respect to the target, which is more limited than the information we have regarding companies we already own.

As a regulated financial institution, our ability to pursue or complete attractive acquisition opportunities could be negatively impacted by regulatory delays or other regulatory issues. In addition, our ability to make large acquisitions in the future may be negatively impacted by regulatory rules or future regulatory initiatives designed to limit systemic risk and the potential for a financial institution to become "too big to fail."

Our business and financial performance could be adversely affected, directly or indirectly, by disasters, natural or otherwise, by terrorist activities or by international hostilities.

Neither the occurrence nor the potential impact of disasters (such as earthquakes, hurricanes, tornadoes, floods and other severe weather conditions, pandemics, dislocations, fires, explosions, and other catastrophic accidents or events), terrorist activities and international hostilities can be predicted. However, these occurrences could impact us directly (for example, by causing significant damage to our facilities or preventing us from conducting our business in the ordinary course), or indirectly as a result of their impact on our borrowers, depositors, other customers, suppliers or other counterparties. We could also suffer adverse consequences to the extent that disasters, terrorist activities or international hostilities affect the financial markets or the economy in general or in any particular region. These types of impacts could lead, for example, to an increase in delinquencies, bankruptcies or defaults that could result in our experiencing higher levels of nonperforming assets, net charge-offs and provisions for credit losses.

Our ability to mitigate the adverse consequences of such occurrences is in part dependent on the quality of our resiliency planning, and our ability, if any, to anticipate the nature of any such event that occurs. The adverse impact of disasters or terrorist activities or international hostilities also could be increased to the extent that there is a lack of preparedness on the part of national or regional emergency responders or on the part of other organizations and businesses that we deal with, particularly those that we depend upon but have no control over.

ITEM 1B – UNRESOLVED STAFF COMMENTS

There are no SEC staff comments regarding PNC's periodic or current reports under the Exchange Act that are pending resolution.

ITEM 2 – PROPERTIES

Our executive and primary administrative offices are currently located at The Tower at PNC Plaza, Pittsburgh, Pennsylvania. The 33-story structure is owned by PNC Bank, National Association.

[Table of Contents](#)

We own or lease numerous other premises for use in conducting business activities, including operations centers, offices, and branch and other facilities. We consider the facilities owned or occupied under lease by our subsidiaries to be adequate for the purposes of our business operations. We include here by reference the additional information regarding our properties in Note 8 Premises, Equipment and Leasehold Improvements in the Notes To Consolidated Financial Statements in Item 8 of this Report.

ITEM 3 – LEGAL PROCEEDINGS

See the information set forth in Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report, which is incorporated here by reference.

ITEM 4 – MINE SAFETY DISCLOSURES

Not applicable

EXECUTIVE OFFICERS OF THE REGISTRANT

Information regarding each of our executive officers as of February 20, 2017 is set forth below. Executive officers do not have a stated term of office. Each executive officer has held the position or positions indicated or another executive position with the same entity or one of its affiliates for the past five years unless otherwise indicated below.

Name	Age	Position with PNC	Year Employed (a)
William S. Demchak	54	Chairman, President and Chief Executive Officer (b)	2002
Orlando C. Esposito	58	Executive Vice President and Head of Asset Management Group	1988
Michael J. Hannon	60	Executive Vice President and Chief Credit Officer	1982
Vicki C. Henn	48	Executive Vice President and Chief Human Resources Officer	1994
Gregory B. Jordan	57	Executive Vice President, General Counsel and Chief Administrative Officer	2013
Stacy M. Juchno	41	Executive Vice President and General Auditor	2009
Karen L. Larrimer	54	Executive Vice President, Chief Customer Officer and Head of Retail Banking	1995
Michael P. Lyons	46	Executive Vice President and Head of Corporate & Institutional Banking	2011
E. William Parsley, III	51	Executive Vice President, Treasurer, Chief Investment Officer and Head of Consumer Lending	2003
Robert Q. Reilly	52	Executive Vice President and Chief Financial Officer	1987
Joseph E. Rockey	52	Executive Vice President and Chief Risk Officer	1999
Steven Van Wyk	58	Executive Vice President and Head of Technology and Operations	2013
Gregory H. Kozich	53	Senior Vice President and Controller	2010

(a) Where applicable, refers to year employed by predecessor company.

(b) Mr. Demchak also serves as a director. Biographical information for Mr. Demchak is included in "Election of Directors (Item 1)" in our proxy statement for the 2017 annual meeting of shareholders. See Item 10 of this Report.

Table of Contents

Orlando C. Esposito was appointed Executive Vice President and head of PNC's Asset Management Group in April 2013. Prior to being named to his current position, he held numerous leadership positions including Executive Vice President of Corporate Banking from November 2006 to April 2013.

Michael J. Hannon has served as Executive Vice President since February 2009, prior to which he was a Senior Vice President. He has served as Chief Credit Officer since November 2001 and as Interim Chief Risk Officer from December 2011 to February 2012.

Vicki C. Henn has served as Executive Vice President and Chief Human Resources Officer of PNC since July 2014. Ms. Henn joined PNC in 1994 and has held numerous management positions. Prior to being named to her current position, Ms. Henn was a Senior Vice President, responsible for Human Resources for Retail Banking.

Gregory B. Jordan joined PNC as Executive Vice President, General Counsel and Head of Regulatory and Government Affairs in October 2013. In February 2016, Mr. Jordan was also appointed Chief Administrative Officer. Prior to joining PNC, he served as the Global Managing Partner for the last 13 years of his 29 year tenure at Reed Smith LLP.

Stacy M. Juchno has served as Executive Vice President and General Auditor of PNC since April 2014. Ms. Juchno joined PNC in 2009 and previously served as a Senior Vice President and Finance Governance and Oversight Director.

Karen L. Larrimer was appointed Executive Vice President in May 2013. Ms. Larrimer became head of PNC's Retail Banking in 2016. She has also served as Chief Customer Officer since April 2014, prior to which she served as Chief Marketing Officer.

Michael P. Lyons has been an Executive Vice President since November 2011 and is head of PNC's Corporate & Institutional Banking.

E. William Parsley, III has served as Treasurer and Chief Investment Officer since January 2004. He was appointed Executive Vice President in February 2009. In addition to retaining his current roles, Mr. Parsley became head of Consumer Lending in the spring of 2016.

Robert Q. Reilly was appointed Chief Financial Officer in August 2013. He served as the head of PNC's Asset Management Group from 2005 until April 2013. Previously, he held numerous management roles in both Corporate Banking and Asset Management. He was appointed Executive Vice President in February 2009.

Joseph E. Rockey was appointed Executive Vice President and Chief Risk Officer in January 2015. Prior to his appointment, Mr. Rockey led enterprise risk management and the Basel office within PNC's risk management organization. Mr. Rockey joined PNC in 1999.

Steven Van Wyk joined PNC as Head of Technology and Operations in January 2013. From 2007 until joining PNC, Mr. Van Wyk served as Global Chief Operating Officer for ING. He was appointed Executive Vice President of PNC in February 2013.

Gregory H. Kozich has served as Controller of PNC since 2011. He was appointed as Senior Vice President in November 2010.

DIRECTORS OF THE REGISTRANT

The name, age and principal occupation of each of our directors as of February 20, 2017 and the year he or she first became a director is set forth below:

- Charles E. Bunch, 67, Retired Executive Chairman of PPG Industries, Inc. (*coatings, sealants and glass products*) (2007)
- Marjorie Rodgers Cheshire, 48, President and Chief Operating Officer, A&R Development Corp. (*real estate development company*) (2014)
- William S. Demchak, 54, Chairman, President and Chief Executive Officer of PNC (2013)
- Andrew T. Feldstein, 52, Chief Executive Officer and Co-Chief Investment Officer of BlueMountain Capital Management, LLC (*asset management firm*) (2013)
- Daniel R. Hesse, 63, Retired President and Chief Executive Officer of Sprint Corporation (*telecommunications*) (2016)
- Kay Coles James, 67, President and Founder of The Gloucester Institute (*non-profit*) (2006)
- Richard B. Kelson, 70, Chairman, President and Chief Executive Officer, ServCo LLC (*strategic sourcing, supply chain management*) (2002)
- Jane G. Pepper, 71, Retired President of the Pennsylvania Horticultural Society (*non-profit*) (1997)
- Donald J. Shepard, 70, Retired Chairman of the Executive Board and Chief Executive Officer of AEGON N.V. (*insurance*) (2007)
- Lorene K. Steffes, 71, Independent Business Advisor (*executive, business management and technical expertise*) (2000)
- Dennis F. Strigl, 70, Retired President and Chief Operating Officer of Verizon Communications Inc. (*telecommunications*) (2001)
- Michael J. Ward, 66, Chairman and Chief Executive Officer of CSX Corporation (*railroads, transportation*) (2016)
- Gregory D. Wasson, 58, Retired President and Chief Executive Officer of Walgreens Boots Alliance (*pharmacy, health and wellbeing enterprise*) (2015)

PART II

ITEM 5 – MARKET FOR REGISTRANT’S COMMON EQUITY, RELATED STOCKHOLDER MATTERS AND ISSUER PURCHASES OF EQUITY SECURITIES

(a) (1) Our common stock is listed on the New York Stock Exchange and is traded under the symbol “PNC.” At the close of business on February 16, 2017, there were 60,763 common shareholders of record.

Holders of PNC common stock are entitled to receive dividends when declared by the Board of Directors out of funds legally available for this purpose. Our Board of Directors may not pay or set apart dividends on the common stock until dividends for all past dividend periods on any series of outstanding preferred stock and certain outstanding capital securities issued by the parent company have been paid or declared and set apart for payment. The Board of Directors presently intends to continue the policy of paying quarterly cash dividends. The amount of any future dividends will depend on economic and market conditions, our financial condition and operating results, and other factors, including contractual restrictions and applicable government regulations and policies (such as those relating to the ability of bank and non-bank subsidiaries to pay dividends to the parent company and regulatory capital limitations). The amount of our dividend is also currently subject to the results of the supervisory assessment of capital adequacy and capital planning processes undertaken by the Federal Reserve and our primary bank regulators as part of the Comprehensive Capital Analysis and Review (CCAR) process as described in the Supervision and Regulation section in Item 1 of this Report.

The Federal Reserve has the power to prohibit us from paying dividends without its approval. For further information concerning dividend restrictions and other factors that could limit our ability to pay dividends, as well as restrictions on loans, dividends or advances from bank subsidiaries to the parent company, see the Supervision and Regulation section in Item 1, Item 1A Risk Factors, the Capital and Liquidity Management portion of the Risk Management section in Item 7, and Note 10 Borrowed Funds, Note 15 Equity and Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report, which we include here by reference.

We include here by reference additional information relating to PNC common stock under the Common Stock Prices/Dividends Declared section in the Statistical Information (Unaudited) section of Item 8 of this Report.

We include here by reference the information regarding our compensation plans under which PNC equity securities are authorized for issuance as of December 31, 2016 in the table (with introductory paragraph and notes) that appears in Item 12 of this Report.

Our stock transfer agent and registrar is:
Computershare Trust Company, N.A.
250 Royall Street
Canton, MA 02021
800-982-7652

Registered shareholders may contact this phone number regarding dividends and other shareholder services.

We include here by reference the information that appears under the Common Stock Performance Graph caption at the end of this Item 5.

- (a)(2) None.
(b) Not applicable.
(c) Details of our repurchases of PNC common stock during the fourth quarter of 2016 are included in the following table:

In thousands, except per share data

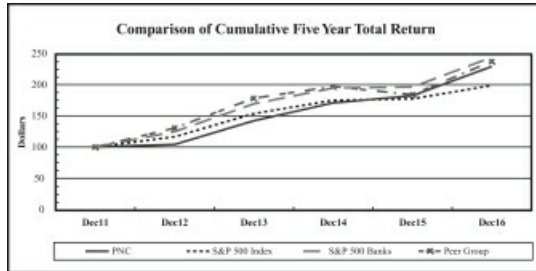
2016 period	Total shares purchased (a)	Average price paid per share	Total shares purchased as part of publicly announced programs (b)	Maximum number of shares that may yet be purchased under the programs (b)
October 1 – 31	2,277	\$ 91.15	2,245	61,962
November 1 – 30	1,243	\$103.50	1,243	60,719
December 1 – 31	1,449	\$115.65	1,449	59,270
Total	4,969	\$101.39		

- (a) Includes PNC common stock purchased in connection with our various employee benefit plans generally related to forfeitures of unvested restricted stock awards and shares used to cover employee payroll tax withholding requirements. Note 11 Employee Benefit Plans and Note 12 Stock Based Compensation Plans in the Notes To Consolidated Financial Statements in Item 8 of this Report include additional information regarding our employee benefit and equity compensation plans that use PNC common stock.
- (b) On March 11, 2015, we announced that our Board of Directors approved the establishment of a stock repurchase program authorization in the amount of 100 million shares of PNC common stock, effective April 1, 2015. Repurchases are made in open market or privately negotiated transactions and the timing and exact amount of common stock repurchases will depend on a number of factors including, among others, market and general economic conditions, regulatory capital considerations, alternative uses of capital, the potential impact on our credit ratings, and contractual and regulatory limitations, including the results of the supervisory assessment of capital adequacy and capital planning processes undertaken by the Federal Reserve as part of the CCAR process.
- In June 2016, we announced share repurchase programs of up to \$2.0 billion for the four quarter period beginning with the third quarter of 2016, including repurchases of up to \$200 million related to employee benefit plans. In January 2017, we announced a \$300 million increase in our share repurchase programs for this period. In the fourth quarter of 2016, we repurchased 4.9 million shares of common stock on the open market, with an average price of \$101.47 per share and an aggregate repurchase price of \$.5 billion. See the Liquidity and Capital Management portion of the Risk Management section in Item 7 of this Report for more information on the share repurchase programs under the share repurchase authorization for the period July 1, 2016 through June 30, 2017 included in the 2016 capital plan accepted by the Federal Reserve.

Table of Contents

Common Stock Performance Graph

This graph shows the cumulative total shareholder return (*i.e.*, price change plus reinvestment of dividends) on our common stock during the five-year period ended December 31, 2016, as compared with: (1) a selected peer group as set forth below and referred to as the “Peer Group;” (2) an overall stock market index, the S&P 500 Index; and (3) a published industry index, the S&P 500 Banks. The yearly points marked on the horizontal axis of the graph correspond to December 31 of that year. The stock performance graph assumes that \$100 was invested on January 1, 2012 for the five-year period and that any dividends were reinvested. The table below the graph shows the resultant compound annual growth rate for the performance period.



Base Period	Assumes \$100 investment at Close of Market on December 31, 2011 Total Return = Price change plus reinvestment of dividends						5-Year Compound Growth Rate
	Dec. 2011	Dec. 2012	Dec. 2013	Dec. 2014	Dec. 2015	Dec. 2016	
PNC	\$ 100	\$103.67	\$141.45	\$170.20	\$181.78	\$228.65	17.99%
S&P 500 Index	\$ 100	\$115.98	\$153.51	\$174.47	\$176.88	\$197.98	14.64%
S&P 500 Banks	\$ 100	\$124.06	\$168.34	\$194.41	\$196.06	\$243.57	19.49%
Peer Group	\$ 100	\$130.30	\$178.02	\$196.96	\$183.89	\$236.81	18.82%

The Peer Group for the preceding chart and table consists of the following companies: BB&T Corporation; Fifth Third Bancorp; KeyCorp; The PNC Financial Services Group, Inc.; SunTrust Banks, Inc.; U.S. Bancorp; Regions Financial Corporation; Wells Fargo & Company; Capital One Financial Corporation; Bank of America Corporation; M&T Bank Corporation; and JPMorgan Chase & Co. This Peer Group was approved for 2016 by the Board of Directors’s Personnel and Compensation Committee. Such Committee has approved the same peer group for 2017.

Each yearly point for the Peer Group is determined by calculating the cumulative total shareholder return for each company in the Peer Group from December 31, 2011 to December 31 of that year (End of Month Dividend Reinvestment Assumed) and then using the median of these returns as the yearly plot point.

In accordance with the rules of the SEC, this section, captioned “Common Stock Performance Graph,” shall not be incorporated by reference into any of our future filings made under the Securities Exchange Act of 1934 or the Securities Act of 1933. The Common Stock Performance Graph, including its accompanying table and footnotes, is not deemed to be soliciting material or to be filed under the Exchange Act or the Securities Act.

ITEM 6 – SELECTED FINANCIAL DATA

	Year ended December 31				
	2016	2015	2014	2013	2012
Dollars in millions, except per share data					
SUMMARY OF OPERATIONS					
Interest income	\$ 9,652	\$ 9,323	\$ 9,431	\$10,007	\$10,734
Interest expense	1,261	1,045	906	860	1,094
Net interest income	8,391	8,278	8,525	9,147	9,640
Noninterest income	6,771	6,947	6,850	6,865	5,872
Total revenue	15,162	15,225	15,375	16,012	15,512
Provision for credit losses	433	255	273	643	987
Noninterest expense	9,476	9,463	9,488	9,681	10,486
Income before income taxes and noncontrolling interests	5,253	5,507	5,614	5,688	4,039
Income taxes	1,268	1,364	1,407	1,476	1,045
Net income	3,985	4,143	4,207	4,212	2,994
Less: Net income (loss) attributable to noncontrolling interests	82	37	23	11	(7)
Preferred stock dividends	209	220	232	237	177
Preferred stock discount accretion and redemptions	6	5	5	12	4
Net income attributable to common shareholders	\$ 3,688	\$ 3,881	\$ 3,947	\$ 3,952	\$ 2,820
PER COMMON SHARE					
Basic earnings	\$ 7.42	\$ 7.52	\$ 7.44	\$ 7.45	\$ 5.33
Diluted earnings	\$ 7.30	\$ 7.39	\$ 7.30	\$ 7.36	\$ 5.28
Book value	\$ 85.94	\$ 81.84	\$ 77.61	\$ 72.07	\$ 66.95
Cash dividends declared	\$ 2.12	\$ 2.01	\$ 1.88	\$ 1.72	\$ 1.55

Certain prior period amounts have been reclassified to conform with the current period presentation, which we believe is more meaningful to readers of our consolidated financial statements.

This Selected Financial Data should be reviewed in conjunction with the Consolidated Financial Statements and Notes included in Item 8 of this Report as well as the other disclosure in this Report concerning our historical financial performance, our future prospects and the risks associated with our business and financial performance.

Table of Contents

	At or for the year ended December 31				
	2016	2015	2014	2013	2012
Dollars in millions, except as noted					
BALANCE SHEET HIGHLIGHTS					
Assets	\$366,380	\$358,493	\$345,072	\$320,192	\$ 305,029
Loans (a)	\$210,833	\$206,696	\$204,817	\$195,613	\$ 185,856
Allowance for loan and lease losses	\$ 2,589	\$ 2,727	\$ 3,331	\$ 3,609	\$ 4,036
Interest-earning deposits with banks (b)	\$ 25,711	\$ 30,546	\$ 31,779	\$ 12,135	\$ 3,984
Investment securities	\$ 75,947	\$ 70,528	\$ 55,823	\$ 60,294	\$ 61,406
Loans held for sale (a)	\$ 2,504	\$ 1,540	\$ 2,262	\$ 2,255	\$ 3,693
Equity investments (c)	\$ 10,728	\$ 10,587	\$ 10,728	\$ 10,560	\$ 10,799
Mortgage servicing rights	\$ 1,758	\$ 1,589	\$ 1,351	\$ 1,636	\$ 1,071
Goodwill	\$ 9,103	\$ 9,103	\$ 9,103	\$ 9,074	\$ 9,072
Other assets (a)	\$ 27,506	\$ 26,566	\$ 28,180	\$ 28,191	\$ 27,964
Noninterest-bearing deposits	\$ 80,230	\$ 79,435	\$ 73,479	\$ 70,306	\$ 69,980
Interest-bearing deposits	\$176,934	\$169,567	\$158,755	\$150,625	\$ 143,162
Total deposits	\$257,164	\$249,002	\$232,234	\$220,931	\$ 213,142
Borrowed funds (a) (d)	\$ 52,706	\$ 54,532	\$ 56,768	\$ 46,105	\$ 40,907
Total shareholders' equity	\$ 45,699	\$ 44,710	\$ 44,551	\$ 42,334	\$ 38,948
Common shareholders' equity	\$ 41,723	\$ 41,258	\$ 40,605	\$ 38,392	\$ 35,358
Accumulated other comprehensive income (loss)	\$ (265)	\$ 130	\$ 503	\$ 436	\$ 834
CLIENT INVESTMENT ASSETS (billions)					
Discretionary client assets under management	\$ 137	\$ 134	\$ 135	\$ 127	\$ 112
Nondiscretionary client assets under administration	129	125	128	120	112
Total client assets under administration (e)	266	259	263	247	224
Brokerage account client assets	44	43	43	41	38
Total	\$ 310	\$ 302	\$ 306	\$ 288	\$ 262
SELECTED RATIOS					
Net interest margin (f)	2.73%	2.74%	3.08%	3.57%	3.94%
Noninterest income to total revenue	45%	46%	45%	43%	38%
Efficiency	62%	62%	62%	60%	68%
Return on					
Average common shareholders' equity	8.85%	9.50%	9.91%	10.85%	8.29%
Average assets	1.10%	1.17%	1.28%	1.38%	1.02%
Loans to deposits	82%	83%	88%	89%	87%
Dividend payout	29.0%	27.0%	25.3%	23.1%	29.1%
Transitional Basel III common equity Tier 1 capital ratio (g) (h) (i)	10.6%	10.6%	10.9%	N/A	N/A
Transitional Basel III Tier 1 risk-based capital ratio (g) (h) (i)	12.0%	12.0%	12.6%	N/A	N/A
Pro forma fully phased-in Basel III common equity Tier 1 capital ratio (Non-GAAP) (h) (i) (j)	10.0%	10.0%	10.0%	9.4%	7.5%
Basel I Tier 1 common capital ratio (i)	N/A	N/A	N/A	10.5%	9.6%
Basel I Tier 1 risk-based capital ratio (i)	N/A	N/A	N/A	12.4%	11.6%
Common shareholders' equity to total assets	11.4%	11.5%	11.8%	12.0%	11.6%
Average common shareholders' equity to average assets	11.5%	11.5%	12.1%	11.9%	11.5%
SELECTED STATISTICS					
Employees	52,006	52,513	53,587	54,433	56,285
Retail Banking branches	2,520	2,616	2,697	2,714	2,881
ATMs	9,024	8,956	8,605	7,445	7,282
Residential mortgage servicing portfolio – Serviced for Third Parties (in billions)	\$ 125	\$ 123	\$ 108	\$ 114	\$ 119
Commercial loan servicing portfolio – Serviced for PNC and Others (in billions)	\$ 487	\$ 447	\$ 377	\$ 347	\$ 322

- (a) Includes assets and liabilities for which we have elected the fair value option. See Consolidated Balance Sheet in Item 8 of this Report for additional information.
- (b) Includes balances held with the Federal Reserve Bank of Cleveland of \$25.1 billion, \$30.0 billion, \$31.4 billion, \$11.7 billion and \$3.5 billion as of December 31, 2016, 2015, 2014, 2013 and 2012, respectively.
- (c) Includes our equity interest in BlackRock.
- (d) Includes long-term borrowings of \$38.3 billion, \$43.6 billion, \$41.5 billion, \$27.6 billion and \$19.3 billion for 2016, 2015, 2014, 2013 and 2012, respectively. Borrowings which mature more than one year after December 31, 2016 are considered to be long-term.
- (e) As a result of certain investment advisory services performed by one of our registered investment advisors, certain assets are reported as both discretionary client assets under management and nondiscretionary client assets under administration. The amount of such assets was approximately \$9 billion, \$6 billion, \$5 billion, \$4 billion and \$4 billion at December 31, 2016, 2015, 2014, 2013 and 2012, respectively.
- (f) Calculated as taxable-equivalent net interest income divided by average earning assets. The interest income earned on certain earning assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of net interest margins, we use net interest income on a taxable-equivalent basis in calculating net interest margin by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP on the Consolidated Income Statement. The taxable-equivalent adjustments to net interest income for the years 2016, 2015, 2014, 2013 and 2012 were \$2 billion, \$2 billion, \$2 billion, \$2 billion and \$.1 billion, respectively. For additional information, see Statistical Information (unaudited) in Item 8 of this Report.
- (g) Calculated using the regulatory capital methodology applicable to us during 2016, 2015 and 2014, respectively.
- (h) See capital ratios discussion in the Supervision and Regulation section of Item 1 and in the Capital Management portion of the Risk Management section in Item 7 of this Report for additional discussion on these capital ratios.
- (i) See additional information on the pro forma ratios, the 2015 Transitional Basel III ratio and Basel I ratios in the Statistical Information (Unaudited) section in Item 8 of this Report.
- (j) Pro forma ratios as of December 31, 2016, December 31, 2015, December 31, 2014 and December 31, 2013 were calculated under the standardized approach and the pro forma ratio as of December 31, 2012 was calculated under the advanced approaches. The 2012 and 2013 ratios have not been updated to reflect the first quarter 2014 adoption of ASU 2014-01 related to investments in low income housing tax credits.

ITEM 7 – MANAGEMENT’S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS (MD&A)

EXECUTIVE SUMMARY

Key Strategic Goals

At PNC we manage our company for the long term. We are focused on the fundamentals of growing customers, loans, deposits and revenue and improving profitability, while investing for the future and managing risk, expenses and capital. We continue to invest in our products, markets and brand, and embrace our commitments to our customers, shareholders, employees and the communities where we do business.

We strive to expand and deepen customer relationships by offering a broad range of deposit, fee-based and credit products and services. We are focused on delivering those products and services to our customers with the goal of addressing their financial objectives and putting customers’ needs first. Our business model is built on customer loyalty and engagement, understanding our customers’ financial goals and offering our diverse products and services to help them achieve financial wellbeing. Our approach is concentrated on organically growing and deepening client relationships across our lines of business that meet our risk/return measures.

Our strategic priorities are designed to enhance value over the long term. One of our priorities is to build a leading banking franchise in our underpenetrated geographic markets. We are focused on reinventing the retail banking experience by transforming the retail distribution network and the home lending process for a better customer experience and improved efficiency, and growing our consumer loan portfolio. In addition, we are seeking to attract more of the investable assets of new and existing clients and we continue to focus on expense management while investing in technology to bolster critical business infrastructure and streamline core processes.

Our capital priorities are to support client growth and business investment, maintain appropriate capital in light of economic conditions and the Basel III framework and return excess capital to shareholders, in accordance with the currently effective capital plan included in our Comprehensive Capital Analysis and Review (CCAR) submission to the Board of Governors of the Federal Reserve System (Federal Reserve). For more detail, see the Capital Highlights portion of this Executive Summary and the Liquidity and Capital Management portion of the Risk Management section of this Item 7 and the Supervision and Regulation section in Item 1 Business of this Report.

Key Factors Affecting Financial Performance

We face a variety of risks that may impact various aspects of our risk profile from time to time. The extent of such impacts may vary depending on factors such as the current economic, political and regulatory environment, merger and acquisition activity and operational challenges. Many of these risks and our risk management strategies are described in more detail elsewhere in this Report.

Our financial performance is substantially affected by a number of external factors outside of our control, including the following:

- Domestic and global economic conditions, including the continuity, speed and stamina of the current U.S. economic expansion in general and its impact on our customers in particular;
- The monetary policy actions and statements of the Federal Reserve and the Federal Open Market Committee (FOMC);
- The level of, and direction, timing and magnitude of movement in, interest rates and the shape of the interest rate yield curve;
- The functioning and other performance of, and availability of liquidity in, the capital and other financial markets;
- Changes in the competitive and regulatory landscape and in counterparty creditworthiness and performance;
- The impact of legislative, regulatory and administrative initiatives and actions, including the form and timing of any further implementation, or changes to, certain reforms enacted by the Dodd-Frank legislation;
- The impact of market credit spreads on asset valuations;
- Asset quality and the ability of customers, counterparties and issuers to perform in accordance with contractual terms;
- Loan demand, utilization of credit commitments and standby letters of credit; and
- Customer demand for non-loan products and services.

In addition, our success will depend upon, among other things:

- Effectively managing capital and liquidity including:
 - Continuing to maintain and grow our deposit base as a low-cost stable funding source;
 - Prudent liquidity and capital management to meet evolving regulatory capital, capital planning, stress testing and liquidity standards; and
 - Actions we take within the capital and other financial markets.
- Managing credit risk in our portfolio;
- Execution of our strategic priorities;

Table of Contents

- Our ability to manage and implement strategic business objectives within the changing regulatory environment;
- The impact of legal and regulatory-related contingencies; and
- The appropriateness of reserves needed for critical accounting estimates and related contingencies.

For additional information, see the Cautionary Statement Regarding Forward-Looking Information section in this Item 7 and Item 1A Risk Factors in this Report.

Income Statement Highlights

Net income for 2016 was \$4.0 billion, or \$7.30 per diluted common share, a decrease of 4% compared to \$4.1 billion, or \$7.39 per diluted common share, for 2015.

- Total revenue decreased \$63 million to \$15.2 billion.
- Net interest income increased \$113 million, or 1%, to \$8.4 billion.
- Net interest margin declined slightly to 2.73% for 2016 compared to 2.74% for 2015.
- Noninterest income decreased \$176 million, or 3%, to \$6.8 billion as growth in fee income was more than offset by a decline in other noninterest income. Noninterest income as a percentage of total revenue was 45% for 2016 and 46% for 2015.
- Provision for credit losses increased to \$433 million in 2016 compared to \$255 million for 2015.
- Noninterest expense of \$9.5 billion was essentially stable as we continued to focus on disciplined expense management.

For additional detail, please see the Consolidated Income Statement Review section of this Item 7.

Balance Sheet Highlights

Our balance sheet was strong and well positioned at December 31, 2016 and December 31, 2015.

- Total loans increased \$4.1 billion, or 2%, to \$210.8 billion.
 - Total commercial lending grew \$4.4 billion, or 3%.
 - Total consumer lending decreased \$.3 billion.
- Total deposits increased \$8.2 billion, or 3%, to \$257.2 billion.
- Investment securities increased \$5.4 billion, or 8%, to \$75.9 billion.

For additional detail, see the Consolidated Balance Sheet Review section of this Item 7.

Credit Quality Highlights

Overall credit quality remained relatively stable in 2016 compared to 2015.

- Nonperforming assets decreased \$51 million, or 2%, to \$2.4 billion at December 31, 2016 compared to December 31, 2015.
- Overall loan delinquencies of \$1.6 billion at December 31, 2016 decreased \$64 million, or 4%, compared with December 31, 2015.
- Net charge-offs of \$543 million in 2016 increased compared to net charge-offs of \$386 million for 2015.

For additional detail, see the Credit Risk Management portion of the Risk Management section of this Item 7.

Capital Highlights

We maintained a strong capital position and continued to return capital to shareholders.

- The Transitional Basel III common equity Tier 1 capital ratio was 10.6% at both December 31, 2016 and December 31, 2015.
- Pro forma fully phased-in Basel III common equity Tier 1 capital ratio, a non-GAAP financial measure, remained stable at an estimated 10.0% at December 31, 2016 and December 31, 2015 based on the standardized approach rules.
- For the full year 2016, we returned \$3.1 billion of capital to shareholders through repurchases of 22.8 million common shares for \$2.0 billion and dividends on common shares of \$1.1 billion, which included an increase of 4 cents in our cash dividend on common stock to 55 cents per share in August 2016.

See the Liquidity and Capital Management portion of the Risk Management section of this Item 7 for more detail on our 2016 capital and liquidity actions as well as our capital ratios.

Our ability to take certain capital actions, including plans to pay or increase common stock dividends or to repurchase shares under current or future programs, is subject to the results of the supervisory assessment of capital adequacy undertaken by the Federal Reserve as part of the CCAR process. For additional information, see the Supervision and Regulation section in Item 1 Business of this Report.

Business Outlook

Statements regarding our business outlook are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. Our forward-looking statements are subject to the risk that economic and financial market conditions will be substantially different than those we are currently expecting and do not take into account potential legal and regulatory contingencies. These statements are based on our current view that the U.S. economy and the labor market will grow moderately in 2017, boosted by stable oil/energy prices, improving consumer spending and housing activity, and expanded federal fiscal policy stimulus as a result of the 2016 elections. Short-term interest rates and bond yields are expected to continue rising in 2017, along with inflation. Specifically, our business outlook reflects our expectation of two 25 basis point increases in short-term interest rates by the Federal Reserve in June and December of 2017. See the Cautionary Statement Regarding Forward-Looking Information section in this Item 7 and Item 1A Risk Factors in this Report for other factors that could cause future events to differ, perhaps materially, from those anticipated in these forward-looking statements.

For the full year 2017 compared to full year 2016, we expect:

- Loan growth to be up mid-single digits, on a percentage basis;
- Revenue to increase mid-single digits, on a percentage basis;
- Purchase accounting accretion to decline \$75 million;
- Noninterest expense to increase by low single digits, on a percentage basis; and
- The effective tax rate to be approximately 25% to 26%, absent any tax reform.

In 2017, we expect quarterly other noninterest income to be between \$250 million to \$275 million, excluding debt securities gains and net Visa activity.

For the first quarter of 2017 compared to the fourth quarter of 2016, we expect:

- Modest loan growth;
- Stable net interest income;
- Fee income to decrease by mid-single digits, on a percentage basis, mainly attributable to seasonality and lower first quarter client activity. Fee income consists of asset management, consumer services, corporate services, residential mortgage and service charges on deposits;
- Provision for credit losses to be between \$75 million and \$125 million; and
- Noninterest expense to decrease by low single digits, on a percentage basis.

CONSOLIDATED INCOME STATEMENT REVIEW

Our Consolidated Income Statement is presented in Item 8 of this Report.

Net income for 2016 was \$4.0 billion, or \$7.30 per diluted common share, a decrease of 4% compared with \$4.1 billion, or \$7.39 per diluted common share, for 2015. The decrease was driven by higher provision for credit losses and a 3% decline in noninterest income, partially offset by 1% increase in net interest income.

Net Interest Income

Table 1: Summarized Average Balances and Net Interest Income (a)

Year Ended December 31 Dollars in millions	2016			2015		
	Average Balances	Yields/ Rates	Interest Income/ Expense	Average Balances	Yields/ Rates	Interest Income/ Expense
Assets						
Interest-earning assets						
Investment securities	\$ 72,046	2.62%	\$1,889	\$ 61,665	2.83%	\$1,744
Loans	208,817	3.61%	7,543	205,349	3.57%	7,333
Interest-earning deposits with banks	26,328	.52%	136	32,908	.26%	86
Other	7,843	3.56%	279	8,903	4.00%	356
Total interest-earning assets/interest income	\$315,034	3.13%	9,847	\$308,825	3.08%	9,519
Liabilities						
Interest-bearing liabilities						
Interest-bearing deposits	\$172,764	.25%	430	\$163,965	.25%	403
Borrowed funds	52,939	1.57%	831	56,513	1.14%	642
Total interest-bearing liabilities/interest expense	\$225,703	.56%	1,261	\$220,478	.47%	1,045
Net interest income/margin (Non-GAAP)		2.73%	8,586		2.74%	8,474
Taxable-equivalent adjustments			(195)			(196)
Net interest income (GAAP)			\$8,391			\$8,278

(a) Interest income calculated as taxable-equivalent interest income. The interest income earned on certain earning assets is completely or partially exempt from federal income tax. To provide more meaningful comparisons of interest income and yields for all interest-earning assets, as well as net interest margins, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margins by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP on the Consolidated Income Statement. For more information, see the Statistical Information (Unaudited) section in Item 8 of this Report.

Changes in net interest income and margin result from the interaction of the volume and composition of interest-earning assets and related yields, interest-bearing liabilities and related rates paid, and noninterest-bearing sources of funding. See the Statistical Information (Unaudited) – Average Consolidated Balance Sheet And Net Interest Analysis and Analysis Of Year-To-Year Changes In Net Interest Income in Item 8 of this Report.

Net interest income increased \$113 million, or 1%, in 2016 compared with 2015 due to increases in loan and securities balances and higher loan yields, partially offset by an increase in borrowing costs and lower securities yields.

Average investment securities increased due to higher average agency residential mortgage-backed securities and U.S. Treasury and government agency securities, partially offset by a decrease in average non-agency residential mortgage-backed securities.

Total investment securities increased to 23% of average interest-earning assets in 2016 compared to 20% in 2015.

The increase in average loans was driven by growth in average commercial real estate loans of \$3.6 billion and average commercial loans of \$2.2 billion, partially offset by a decrease in consumer loans of \$2.6 billion. The decline in consumer loans was primarily attributable to declines in the nonstrategic consumer and government guaranteed education loan portfolios. Loans represented 66% of average interest-earning assets in 2016 and 2015.

Average interest-bearing deposits increased \$8.8 billion primarily due to higher average savings deposits, which largely reflected a shift from money market deposits to relationship-based savings products, as well as higher average interest-bearing demand deposits. Average interest-bearing deposits increased to 77% of average interest-bearing liabilities in 2016 compared to 74% in 2015.

Table of Contents

Noninterest Income

Table 2: Noninterest Income

Year ended December 31			Change	
Dollars in millions	2016	2015	\$	%
Noninterest income				
Asset management	\$1,521	\$1,567	\$ (46)	(3)%
Consumer services	1,388	1,335	53	4%
Corporate services	1,504	1,491	13	1%
Residential mortgage	567	566	1	—
Service charges on deposits	667	651	16	2%
Other	1,124	1,337	(213)	(16)%
Total noninterest income	\$6,771	\$6,947	\$(176)	(3)%

Noninterest income as a percentage of total revenue was 45% for 2016 and 46% for 2015.

Asset management revenue decreased mainly due to lower earnings from BlackRock and the impact from a \$30 million trust settlement in 2015 in our asset management business segment. Discretionary client assets under management in the Asset Management Group were \$137 billion at December 31, 2016 compared with \$134 billion at December 31, 2015.

Consumer service fees increased primarily from growth in payment-related products including debit card and credit card, as well as higher brokerage fees.

Corporate service fees increased reflecting higher treasury management fees and a higher benefit from commercial mortgage servicing rights valuation, net of economic hedge, partially offset by lower merger and acquisition advisory fees.

Other noninterest income decreased primarily attributable to the impact of lower net gains on sales of Visa Class B common shares and lower revenue from private equity investments. Net gains on the sale of Visa shares for 2016 were \$32 million compared with \$166 million in 2015. Net gains on Visa sales include derivative fair value adjustments related to swap agreements with purchasers of Visa shares in connection with all prior sales to date.

Other noninterest income typically fluctuates from period to period depending on the nature and magnitude of transactions completed. Further details regarding our customer-related trading activities are included in the Market Risk Management – Customer-Related Trading Risk portion of the Risk Management section of this Item 7. Further details regarding private and other equity investments are included in the Market Risk Management – Equity and Other Investment Risk section, and further details regarding gains or losses related to our equity investment in BlackRock are included in the Business Segments Review section of this Item 7.

Provision for Credit Losses

The provision for credit losses increased to \$433 million in 2016 compared with \$255 million in 2015, primarily attributable to a higher provision for energy related loans in the oil, gas, and coal sectors. Additionally, overall credit portfolio performance and loan growth contributed to the higher provision.

The Credit Risk Management portion of the Risk Management section of this Item 7 includes additional information regarding factors impacting the provision for credit losses.

Noninterest Expense

Table 3: Noninterest Expense

Year ended December 31			Change	
Dollars in millions	2016	2015	\$	%
Noninterest expense				
Personnel	\$4,841	\$4,831	\$ 10	—
Occupancy	861	842	19	2%
Equipment	974	925	49	5%
Marketing	247	249	(2)	(1)%
Other	2,553	2,616	(63)	(2)%
Total noninterest expense	\$9,476	\$9,463	\$ 13	—

Noninterest expense increased slightly in the comparison to the prior year as we continued to focus on disciplined expense management. The increase reflected higher 2016 contributions to the PNC Foundation, a new FDIC deposit insurance surcharge and investments in technology and business infrastructure mostly offset by net lower contingency accruals.

During 2016, we completed actions and achieved our 2016 continuous improvement program savings goal of \$400 million, which largely funded our investments in technology and business infrastructure. In 2017, we have a goal of \$350 million in cost savings through our continuous improvement program, which we expect will substantially fund our 2017 business and technology investments.

Effective Income Tax Rate

The effective income tax rate was 24.1% for 2016 compared with 24.8% for 2015. The effective tax rate is generally lower than the statutory rate primarily due to tax credits we receive from our investments in low income housing and new markets investments, as well as earnings in other tax exempt investments. The decline in the comparison reflected the tax favorability of the 2016 PNC Foundation contributions.

CONSOLIDATED BALANCE SHEET REVIEW

Table 4: Summarized Balance Sheet Data

Dollars in millions	December 31 2016	December 31 2015	Change	
			\$	%
Assets				
Interest-earning deposits with banks	\$ 25,711	\$ 30,546	\$(4,835)	(16)%
Loans held for sale	2,504	1,540	964	63%
Investment securities	75,947	70,528	5,419	8%
Loans	210,833	206,696	4,137	2%
Allowance for loan and lease losses	(2,589)	(2,727)	138	5%
Mortgage servicing rights	1,758	1,589	169	11%
Goodwill	9,103	9,103	—	—
Other, net	43,113	41,218	1,895	5%
Total assets	\$ 366,380	\$ 358,493	\$ 7,887	2%
Liabilities				
Deposits	\$ 257,164	\$ 249,002	\$ 8,162	3%
Borrowed funds	52,706	54,532	(1,826)	(3)%
Other	9,656	8,979	677	8%
Total liabilities	319,526	312,513	7,013	2%
Equity				
Total shareholders' equity	45,699	44,710	989	2%
Noncontrolling interests	1,155	1,270	(115)	(9)%
Total equity	46,854	45,980	874	2%
Total liabilities and equity	\$ 366,380	\$ 358,493	\$ 7,887	2%

The summarized balance sheet data in Table 4 is based upon our Consolidated Balance Sheet in Item 8 of this Report.

Our balance sheet reflected asset growth compared to December 31, 2015 and we maintained strong liquidity and capital positions at December 31, 2016.

- Total assets increased primarily due to higher investment securities and loan balances, partially offset by lower interest-earning deposits with banks.
- Higher total liabilities were driven by deposit growth.
- The increase to total equity reflected increased retained earnings driven by net income, partially offset by share repurchases.

Table of Contents

The following discussion provides additional information about the major components of our balance sheet. Information regarding our capital and regulatory compliance is included in the Liquidity and Capital Management portion of the Risk Management section of this Item 7 and in Note 18 Regulatory Matters in our Notes To Consolidated Financial Statements included in this Report.

Loans

Table 5: Details of Loans

Dollars in millions	December 31	December 31	Change	
	2016	2015	\$	%
Commercial lending				
Commercial				
Manufacturing	\$ 18,891	\$ 19,014	\$ (123)	(1)%
Retail/wholesale trade	16,752	16,661	91	1%
Service providers	14,707	13,970	737	5%
Real estate related (a)	11,920	11,659	261	2%
Health care	9,491	9,210	281	3%
Financial services	7,241	7,234	7	—
Other industries	22,362	20,860	1,502	7%
Total commercial	101,364	98,608	2,756	3%
Commercial real estate	29,010	27,468	1,542	6%
Equipment lease financing	7,581	7,468	113	2%
Total commercial lending	137,955	133,544	4,411	3%
Consumer lending				
Home equity	29,949	32,133	(2,184)	(7)%
Residential real estate	15,598	14,411	1,187	8%
Credit card	5,282	4,862	420	9%
Other consumer				
Automobile	12,380	11,157	1,223	11%
Education	5,159	5,881	(722)	(12)%
Other	4,510	4,708	(198)	(4)%
Total consumer lending	72,878	73,152	(274)	—
Total loans	\$ 210,833	\$ 206,696	\$ 4,137	2%

(a) Includes loans to customers in the real estate and construction industries.

Loan growth was the result of an increase in total commercial lending from higher commercial and commercial real estate loans. Consumer lending declined due to lower home equity and education loans, partially offset by higher automobile loans, residential real estate loans and credit cards.

See the Credit Risk Management portion of the Risk Management section of this Item 7 and Note 1 Accounting Policies, Note 3 Asset Quality and Note 4 Allowances for Loan and Lease Losses in our Notes To Consolidated Financial Statements included in Item 8 of this Report for additional information regarding our loan portfolio.

Table of Contents

Investment Securities

Table 6: Investment Securities

Dollars in millions	December 31, 2016		December 31, 2015		Ratings (a) As of December 31, 2016				
	Amortized Cost	Fair Value	Amortized Cost	Fair Value	AAA/AA	A	BBB	BB and Lower	No Rating
U.S. Treasury and government agencies	\$13,627	\$13,714	\$10,022	\$10,172	100%				
Agency residential mortgage-backed	37,319	37,109	34,250	34,408	100				
Non-agency residential mortgage-backed	3,382	3,564	4,225	4,392	11		4%	76%	9%
Agency commercial mortgage-backed	3,053	3,046	3,045	3,086	100				
Non-agency commercial mortgage-backed (b)	4,590	4,602	5,624	5,630	82	6%	2	1	9
Asset-backed (c)	6,496	6,524	6,134	6,130	84	5	3	7	1
Other debt (d)	6,679	6,810	6,147	6,355	73	16	7	1	3
Corporate stock and other	603	601	590	589					100
Total investment securities (e)	\$75,749	\$75,970	\$70,037	\$70,762	91%	2%	1%	4%	2%

(a) Ratings percentages allocated based on amortized cost.

(b) Collateralized primarily by retail properties, office buildings, lodging properties and multi-family housing.

(c) Collateralized primarily by corporate debt, government guaranteed education loans and other consumer credit products.

(d) Includes state and municipal securities.

(e) Includes available for sale and held to maturity securities.

Investment securities increased \$5.4 billion at December 31, 2016 compared to December 31, 2015. Growth in investment securities was driven by net purchases of U.S. Treasury and government agencies and agency residential mortgage-backed securities, partially offset by prepayments of non-agency commercial mortgage-backed and non-agency residential mortgage-backed securities.

Table 6 presents the distribution of our investment securities portfolio by credit rating. We have included credit ratings information because we believe that the information is an indicator of the degree of credit risk to which we are exposed, which could affect our risk-weighted assets and, therefore, our risk-based regulatory capital ratios under the regulatory capital rules. Changes in credit ratings classifications could indicate increased or decreased credit risk and could be accompanied by a reduction or increase in the fair value of our investment securities portfolio.

At least quarterly, we conduct a comprehensive security-level impairment assessment on all securities. If economic conditions, including home prices, were to deteriorate from current levels, and if market volatility and liquidity were to deteriorate from current levels, or if market interest rates were to increase or credit spreads were to widen appreciably, the valuation of our investment securities portfolio would likely be adversely affected and we could incur additional OTTI credit losses that would impact our Consolidated Income Statement.

The duration of investment securities was 3.0 years at December 31, 2016. We estimate that at December 31, 2016 the effective duration of investment securities was 3.1 years for an immediate 50 basis points parallel increase in interest rates and 2.9 years for an immediate 50 basis points parallel decrease in interest rates. Comparable amounts at December 31, 2015 for the effective duration of investment securities were 2.8 years and 2.6 years, respectively.

Based on expected prepayment speeds, the weighted-average expected maturity of the investment securities portfolio (excluding corporate stock and other) was 5.0 years at December 31, 2016 compared to 4.8 years at December 31, 2015.

Table 7: Weighted-Average Expected Maturities of Mortgage and Other Asset-Backed Debt Securities

December 31, 2016	Years
Agency residential mortgage-backed	5.2
Non-agency residential mortgage-backed	5.8
Agency commercial mortgage-backed	3.5
Non-agency commercial mortgage-backed	3.5
Asset-backed	2.5

Additional information regarding our investment securities is included in Note 5 Investment Securities and Note 6 Fair Value in the Notes To Consolidated Financial Statements included in this Report.

Funding Sources

Table 8: Details of Funding Sources

Dollars in millions	December 31	December 31	Change	
	2016	2015	\$	%
Deposits				
Money market	\$ 105,849	\$ 118,079	\$(12,230)	(10)%
Demand	96,799	90,038	6,761	8%
Savings	36,956	20,375	16,581	81%
Time deposits	17,560	20,510	(2,950)	(14)%
Total deposits	257,164	249,002	8,162	3%
Borrowed funds				
FHLB borrowings	17,549	20,108	(2,559)	(13)%
Bank notes and senior debt	22,972	21,298	1,674	8%
Subordinated debt	8,009	8,556	(547)	(6)%
Other	4,176	4,570	(394)	(9)%
Total borrowed funds	52,706	54,532	(1,826)	(3)%
Total funding sources	\$ 309,870	\$ 303,534	\$ 6,336	2%

Total deposits increased in the comparison mainly due to strong growth in demand and savings deposits which reflected in part a shift from money market deposits to relationship-based savings products. Total borrowed funds decreased in the comparison due to maturities of FHLB borrowings, partially offset by higher bank notes and senior debt.

See the Liquidity and Capital Management portion of the Risk Management section of this Item 7 for additional information regarding our 2016 capital and liquidity activities.

Shareholders' Equity

Total shareholders' equity as of December 31, 2016 grew \$1.0 billion compared to December 31, 2015 due to an increase in retained earnings and higher capital surplus, which included the issuance of Series S preferred stock, partially offset by common share repurchases of \$2.0 billion and a decrease in accumulated other comprehensive income primarily related to net unrealized securities losses. The growth in retained earnings resulted from 2016 net income of \$4.0 billion, reduced by \$1.3 billion of common and preferred dividends declared. Common shares outstanding were 485 million and 504 million at December 31, 2016, and December 31, 2015, respectively, reflecting repurchases of 22.8 million shares during 2016.

BUSINESS SEGMENTS REVIEW

We have six reportable business segments:

- Retail Banking
- Corporate & Institutional Banking
- Asset Management Group
- Residential Mortgage Banking
- BlackRock
- Non-Strategic Assets Portfolio

Business segment results and a description of each business are included in Note 22 Segment Reporting included in the Notes To Consolidated Financial Statements in Item 8 of this Report. Certain amounts included in this Business Segments Review section of this Item 7 differ from those amounts shown in Note 22, primarily due to the presentation in Item 7 of this Report of business net interest revenue on a taxable-equivalent basis. Note 22 presents results of businesses for 2016, 2015 and 2014.

Net interest income in business segment results reflects our internal funds transfer pricing methodology. Assets receive a funding charge and liabilities and capital receive a funding credit based on a transfer pricing methodology that incorporates product repricing characteristics, tenor and other factors. In the first quarter of 2015, enhancements were made to our funds transfer pricing methodology primarily for costs related to the new regulatory short-term liquidity standards. The enhancements incorporate an additional charge assigned to assets, including for unfunded loan commitments. Conversely, a higher transfer pricing credit has been assigned to those deposits that are accorded higher value under Liquidity Coverage Ratio (LCR) rules for liquidity purposes. Please see the Supervision and Regulation section in Item 1 and the Liquidity and Capital Management section in this Item 7 for more information about the LCR. These adjustments affected business segment results, primarily favorably impacting Retail Banking and adversely impacting Corporate & Institutional Banking.

Table of Contents

Retail Banking

(Unaudited)

Table 9: Retail Banking Table

Year ended December 31			Change	
Dollars in millions, except as noted	2016	2015	\$	%
INCOME STATEMENT				
Net interest income	\$ 4,456	\$ 4,226	\$ 230	5%
Noninterest income	2,142	2,223	(81)	(4)%
Total revenue	6,598	6,449	149	2%
Provision for credit losses	284	259	25	10%
Noninterest expense	4,693	4,761	(68)	(1)%
Pretax earnings	1,621	1,429	192	13%
Income taxes	594	522	72	14%
Earnings	\$ 1,027	\$ 907	\$ 120	13%
AVERAGE BALANCE SHEET				
Loans				
Consumer				
Home equity	\$ 26,204	\$ 27,657	\$ (1,453)	(5)%
Automobile	11,248	10,433	815	8%
Education	5,562	6,307	(745)	(12)%
Credit cards	4,889	4,527	362	8%
Other	1,790	1,881	(91)	(5)%
Total consumer	49,693	50,805	(1,112)	(2)%
Commercial and commercial real estate	12,147	12,705	(558)	(4)%
Residential mortgage	528	680	(152)	(22)%
Total loans	\$ 62,368	\$ 64,190	\$ (1,822)	(3)%
Total assets	\$ 71,556	\$ 73,240	\$ (1,684)	(2)%
Deposits				
Noninterest-bearing demand	\$ 27,200	\$ 24,119	\$ 3,081	13%
Interest-bearing demand	38,629	36,189	2,440	7%
Money market	45,926	54,576	(8,650)	(16)%
Savings	27,340	14,358	12,982	90%
Certificates of deposit	14,798	16,518	(1,720)	(10)%
Total deposits	\$153,893	\$145,760	\$ 8,133	6%
PERFORMANCE RATIOS				
Return on average assets	1.44%	1.24%		
Noninterest income to total revenue	32%	34%		
Efficiency	71%	74%		
SUPPLEMENTAL NONINTEREST INCOME INFORMATION				
Consumer services	\$ 1,061	\$ 1,015	\$ 46	5%
Service charges on deposits	\$ 639	\$ 623	\$ 16	3%
Brokerage	\$ 295	\$ 284	\$ 11	4%
OTHER INFORMATION (a)				
Customer-related statistics (average)				
Non-teller deposit transactions (b)	49%	43%		
Digital consumer customers (c)	58%	52%		
Credit-related statistics				
Nonperforming assets (d)	\$ 1,003	\$ 1,045	\$ (42)	(4)%
Net charge-offs	\$ 349	\$ 344	\$ 5	1%
Other statistics				
ATMs	9,024	8,956	68	1%
Branches (e)	2,520	2,616	(96)	(4)%
Universal branches (f)	526	359	167	47%
Brokerage account client assets (in billions) (g)	\$ 44	\$ 43	\$ 1	2%

(continued on following page)

Table of Contents

(continued from previous page)

- (a) Presented as of December 31, except for customer-related statistics, which are averages for the year ended, and net charge-offs, which are for the year ended.
- (b) Percentage of total consumer and business banking deposit transactions processed at an ATM or through our mobile banking application.
- (c) Represents consumer checking relationships that process the majority of their transactions through non-teller channels.
- (d) Includes nonperforming loans of \$1.0 billion at both December 31, 2016 and December 31, 2015.
- (e) Excludes satellite offices (e.g., drive-ups, electronic branches and retirement centers) that provide limited products and/or services.
- (f) Included in total branches; represents branches operating under our universal model.
- (g) Includes cash and money market balances.

Retail Banking earned \$1.0 billion in 2016 compared with \$907 million for 2015. The increase in earnings was driven by higher net interest income and a decrease in noninterest expense, partially offset by lower noninterest income and increased provision for credit losses. Retail Banking continues to enhance the customer experience with refinements to product offerings that drive product value for consumers and small businesses. We are focused on meeting the financial needs of our customers by providing a broad range of liquidity, banking and investment products.

Retail Banking continued to focus on the strategic priority of transforming the customer experience through transaction migration, branch network transformation and multi-channel engagement and service strategies.

- In 2016, approximately 58% of consumer customers used non-teller channels for the majority of their transactions compared with 52% for 2015.
- Deposit transactions via ATM and mobile channels increased to 49% of total deposit transactions in 2016 compared with 43% for 2015.
- We had a network of 2,520 branches and 9,024 ATMs at December 31, 2016. Approximately 21% of the branch network operates under the universal model.
- Instant debit card issuance, which enables us to print a customer's debit card in minutes, was available in 2,207 branches, or 88% of the branch network, as of December 31, 2016.

Net interest income increased in 2016 compared to 2015 due to growth in deposit balances partially offset by lower loan balances and interest rate spread compression on the value of loans and deposits.

The decline in noninterest income compared to the prior year reflected the impact of lower net gains on sales of Visa Class B common shares in 2016 of \$32 million compared with net gains of \$166 million in 2015. Net gains on Visa sales include derivative fair value adjustments related to swap agreements with purchasers of Visa Class B common shares in connection with all prior sales to date.

Other forms of noninterest income grew in the comparison, reflecting execution on our strategy to provide diverse product and service offerings. Higher transaction volumes in 2016 contributed to consumer service fee growth from payment-related products, specifically in debit and credit card, as well as increased service charges on deposits and brokerage fees.

The decline in noninterest expense in the comparison was due to a decrease in personnel expense, lower marketing expense,

and reduced branch network expenses as a result of network transformation and transaction migration to lower cost digital and ATM channels.

Provision for credit losses increased compared to 2015, reflecting overall credit portfolio performance.

The deposit strategy of Retail Banking is to remain disciplined on pricing and focused on growing and retaining relationship-based balances, executing on market specific deposit growth strategies, and providing a source of low-cost funding and liquidity to PNC. In 2016, average total deposits increased compared to 2015, driven by growth in savings deposits reflecting in part a shift from money market deposits to relationship-based savings products. Additionally, demand deposit categories increased, partially offset by a decline in certificates of deposit due to the net runoff of maturing accounts.

Retail Banking continued to focus on a relationship-based lending strategy. The decrease in average total loans in 2016 compared to 2015 was due to a decline in home equity and commercial loans, as well as runoff of certain portions of the portfolios, as more fully described below.

- Average home equity loans decreased as pay-downs and payoffs on loans exceeded new originated volume. Retail Banking's home equity loan portfolio is relationship based, with over 97% of the portfolio attributable to borrowers in our primary geographic footprint. The weighted-average updated FICO scores for this portfolio were 746 at December 31, 2016 and 752 at December 31, 2015.
- Average commercial and commercial real estate loans declined as pay-downs and payoffs on loans exceeded new volume.
- Average automobile loans, which consisted of both direct and indirect auto loans, increased primarily due to portfolio growth in previously underpenetrated markets.
- Average credit card balances increased as a result of organic growth.
- In 2016, average loan balances for the education and other loan portfolios declined \$988 million, or 11%, compared to 2015, driven by declines in the discontinued government guaranteed education, indirect other, and residential mortgage portfolios, which are primarily runoff portfolios.

Nonperforming assets decreased compared to December 31, 2015 driven by declines in both consumer and commercial nonperforming loans.

Table of Contents

Corporate & Institutional Banking

(Unaudited)

Table 10: Corporate & Institutional Banking Table

Year ended December 31				
Dollars in millions, except as noted				
	2016	2015	Change	
			\$	%
INCOME STATEMENT				
Net interest income	\$ 3,503	\$ 3,494	\$ 9	—
Noninterest income	2,006	1,935	71	4%
Total revenue	5,509	5,429	80	1%
Provision for credit losses	187	106	81	76%
Noninterest expense	2,175	2,148	27	1%
Pretax earnings	3,147	3,175	(28)	(1)%
Income taxes	1,112	1,144	(32)	(3)%
Earnings	\$ 2,035	\$ 2,031	\$ 4	—
AVERAGE BALANCE SHEET				
Loans held for sale	\$ 868	\$ 966	\$ (98)	(10)%
Loans				
Commercial	\$ 88,264	\$ 85,416	\$ 2,848	3%
Commercial real estate	26,553	23,036	3,517	15%
Equipment lease financing	6,819	6,940	(121)	(2)%
Total commercial lending	121,636	115,392	6,244	5%
Consumer	420	866	(446)	(52)%
Total loans	\$122,056	\$116,258	\$ 5,798	5%
Total assets	\$138,587	\$132,032	\$ 6,555	5%
Deposits				
Noninterest-bearing demand	\$ 46,269	\$ 48,318	\$ (2,049)	(4)%
Money market	21,473	22,185	(712)	(3)%
Other	13,869	10,189	3,680	36%
Total deposits	\$ 81,611	\$ 80,692	\$ 919	1%
PERFORMANCE RATIOS				
Return on average assets	1.47%	1.54%		
Noninterest income to total revenue	36%	36%		
Efficiency	39%	40%		
OTHER INFORMATION				
Commercial loan servicing portfolio (in billions) (a) (b)	\$ 487	\$ 447	\$ 40	9%
Consolidated revenue from: (c)				
Treasury Management (d)	\$ 1,569	\$ 1,388	\$ 181	13%
Capital Markets (d)	\$ 808	\$ 813	\$ (5)	(1)%
Commercial mortgage banking activities				
Commercial mortgage loans held for sale (e)	\$ 127	\$ 140	\$ (13)	(9)%
Commercial mortgage loan servicing income (f)	261	261	—	—
Commercial mortgage servicing rights valuation, net of economic hedge (g)	44	28	16	57%
Total	\$ 432	\$ 429	\$ 3	1%
Net carrying amount of commercial mortgage servicing rights (a)	\$ 576	\$ 526	\$ 50	10%
Average Loans (by C&IB business)				
Corporate Banking	\$ 57,813	\$ 57,774	\$ 39	—
Real Estate	36,493	31,312	5,181	17%
Business Credit	14,763	14,615	148	1%
Equipment Finance	11,182	10,954	228	2%
Other	1,805	1,603	202	13%
Total average loans	\$122,056	\$116,258	\$ 5,798	5%
Credit-related statistics				
Nonperforming assets (a) (h)	\$ 654	\$ 518	\$ 136	26%
Net charge-offs	\$ 187	\$ 30	\$ 157	*

* — Not meaningful.

(a) As of December 31.

(b) Represents loans serviced for PNC and others.

(continued on following page)

Table of Contents

(continued from previous page)

- (c) Represents consolidated amounts. See the additional revenue discussion regarding treasury management, capital markets-related products and services, and commercial mortgage banking activities in the Product Revenue section of the Corporate & Institutional Banking portion of this Business Segments Review section.
- (d) Includes amounts reported in net interest income, corporate service fees and other noninterest income.
- (e) Includes other noninterest income for valuations on commercial mortgage loans held for sale and related commitments, derivative valuations, origination fees, gains on sale of loans held for sale and net interest income on loans held for sale.
- (f) Includes net interest income and noninterest income (primarily in corporate services fees) from loan servicing net of reduction in commercial mortgage servicing rights due to time decay and payoffs. Commercial mortgage servicing rights valuation, net of economic hedge is shown separately.
- (g) Amounts reported in corporate service fees.
- (h) Includes nonperforming loans of \$.6 billion at December 31, 2016 and \$.4 billion at December 31, 2015.

Corporate & Institutional Banking earned \$2.0 billion in both 2016 and 2015.

Earnings remained stable as higher revenue was offset by an increase in the provision for credit losses. We continue to focus on building client relationships with appropriate risk-return profiles.

Net interest income increased modestly compared with 2015, reflecting the impacts of higher average loans and interest rate spread expansion on deposits, as well as interest rate spread compression on loans.

Growth in noninterest income in the comparison was driven by higher treasury management fees, an equity investment gain in 2016, increased fees from underwriting activities and higher structuring fees on asset securitizations. These increases were partially offset by lower merger and acquisition advisory fees.

Overall credit quality in 2016 remained relatively stable, except for deterioration related to certain energy related loans, which was the primary driver for the increase in provision for credit losses, net charge-offs and nonperforming assets in the year over year comparisons. Increased provision for credit losses also reflected the impact of continued loan growth.

Noninterest expense increased nominally in the comparison reflecting disciplined expense management.

Average loans increased in 2016 compared with 2015 due to strong growth in Real Estate:

- PNC Real Estate provides banking, financing and servicing solutions for commercial real estate clients across the country. Higher average loans for this business were primarily due to growth in both commercial real estate and commercial lending.
- Corporate Banking provides lending, treasury management and capital markets-related products and services to mid-sized and large corporations, government and not-for-profit entities. Average loans for this business increased slightly in the comparison, reflecting increased lending to large corporate clients mostly offset by the impact of capital and liquidity management activities.
- PNC Business Credit provides asset-based lending. The loan portfolio is relatively high yielding, with acceptable risk as the loans are mainly secured by short-term assets. Average loans for this business increased in the comparison due to new originations.
- PNC Equipment Finance provides equipment financing solutions for clients throughout the U.S. and Canada. Average loans, including commercial loans and finance

leases, and operating leases were \$11.9 billion in 2016, compared with \$11.8 billion in 2015.

Average deposits increased modestly compared with 2015, as growth in other deposits, driven by interest-bearing demand deposit growth, was mostly offset by decreases in noninterest-bearing demand deposits and money market deposits.

Growth in the commercial loan servicing portfolio was reflected by servicing additions from new and existing customers exceeding portfolio run-off.

Product Revenue

In addition to credit and deposit products for commercial customers, Corporate & Institutional Banking offers other services, including treasury management, capital markets-related products and services, and commercial mortgage banking activities, for customers of all business segments. On a consolidated basis, the revenue from these other services is included in net interest income, corporate service fees and other noninterest income. From a segment perspective, the majority of the revenue and expense related to these services is reflected in the Corporate & Institutional Banking segment results and the remainder is reflected in the results of other businesses. The Other Information section in Table 10 includes the consolidated revenue for these services. A discussion of the consolidated revenue from these services follows.

Treasury management revenue consists of fees and net interest income from customer deposit balances. Compared with 2015, revenue from treasury management increased driven by liquidity-related revenue associated with customer deposit balances and interest rate spread expansion.

Capital markets-related products and services include foreign exchange, derivatives, securities, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. Revenue from capital markets-related products and services decreased slightly in the comparison as both lower merger and acquisition advisory fees and loan syndication fees were mostly offset by increased fees from underwriting activities and higher structuring fees on asset securitizations.

Commercial mortgage banking activities include revenue derived from commercial mortgage servicing (including net interest income and noninterest income) and revenue derived from commercial mortgage loans held for sale and related hedges. Total commercial mortgage banking activities increased marginally in the comparison as a higher benefit from commercial mortgage servicing rights valuation, net of economic hedge, was mostly offset by lower revenue from commercial mortgage loans held for sale.

Table of Contents

Asset Management Group

(Unaudited)

Table 11: Asset Management Group Table

Year ended December 31		Change	
Dollars in millions, except as noted		\$	%
2016		2015	
INCOME STATEMENT			
Net interest income	\$ 300	\$ 292	\$ 8 3%
Noninterest income	851	869	(18) (2)%
Total revenue	1,151	1,161	(10) (1)%
Provision for credit losses (benefit)	(6)	9	(15) (167)%
Noninterest expense	825	846	(21) (2)%
Pretax earnings	332	306	26 8%
Income taxes	122	112	10 9%
Earnings	\$ 210	\$ 194	\$ 16 8%
AVERAGE BALANCE SHEET			
Loans			
Consumer	\$ 5,436	\$ 5,655	\$ (219) (4)%
Commercial and commercial real estate	754	880	(126) (14)%
Residential mortgage	1,058	919	139 15%
Total loans	\$ 7,248	\$ 7,454	\$ (206) (3)%
Total assets	\$ 7,707	\$ 7,920	\$ (213) (3)%
Deposits			
Noninterest-bearing demand	\$ 1,431	\$ 1,272	\$ 159 13%
Interest-bearing demand	4,013	4,144	(131) (3)%
Money market	4,128	5,161	(1,033) (20)%
Savings	2,303	361	1,942 538%
Other	275	277	(2) (1)%
Total deposits	\$12,150	\$11,215	\$ 935 8%
PERFORMANCE RATIOS			
Return on average assets	2.72%	2.45%	
Noninterest income to total revenue	74%	75%	
Efficiency	72%	73%	
OTHER INFORMATION			
Nonperforming assets (a) (b)	\$ 53	\$ 53	— —
Net charge-offs	\$ 9	\$ 13	\$ (4) (31)%
CLIENT ASSETS UNDER ADMINISTRATION (in billions) (a) (c) (d)			
Discretionary client assets under management	\$ 137	\$ 134	\$ 3 2%
Nondiscretionary client assets under administration	129	125	4 3%
Total	\$ 266	\$ 259	\$ 7 3%
Discretionary client assets under management			
Personal	\$ 85	\$ 85	— —
Institutional	52	49	\$ 3 6%
Total	\$ 137	\$ 134	\$ 3 2%
Equity	\$ 73	\$ 72	\$ 1 1%
Fixed Income	39	40	(1) (3)%
Liquidity/Other	25	22	3 14%
Total	\$ 137	\$ 134	\$ 3 2%

(a) As of December 31.

(b) Includes nonperforming loans of \$46 million at December 31, 2016 and \$48 million at December 31, 2015.

(c) Excludes brokerage account client assets.

(d) As a result of certain investment advisory services performed by one of our registered investment advisors, certain assets are reported as both discretionary client assets under management and nondiscretionary client assets under administration. The amount of such assets was approximately \$9 billion at December 31, 2016 and \$6 billion at December 31, 2015.

[Table of Contents](#)

Asset Management Group earned \$210 million in 2016 compared to \$194 million in 2015. Earnings increased due to declines in noninterest expense and provision for credit losses, as well as an increase in net interest income, partially offset by a decrease in noninterest income.

The decline in revenue in the comparison was driven by lower noninterest income, partially offset by higher net interest income. The decline in noninterest income reflected the impact from a \$30 million trust settlement in 2015, which was partially offset by new sales production and stronger average equity markets. Increased net interest income in the comparison was primarily due to higher average deposit balances, partially offset by a decrease in loan balances.

The reduction in noninterest expense in 2016 compared to the prior year was primarily attributable to lower compensation expense. Asset Management Group remains focused on disciplined expense management as it invests in strategic growth opportunities.

Asset Management Group's strategy is focused on growing investable assets by continually evolving the client experience and products and services. The business offers an open architecture platform with a full array of investment products and banking solutions. Key growth opportunities include:

maximizing front line productivity, ensuring a relationship-based approach with other lines of business partners, and optimizing market presence across our footprint.

Wealth Management and Hawthorn have nearly 100 offices operating in seven out of the ten most affluent states in the U.S. with a majority co-located with retail banking branches. The businesses provide customized investments, wealth planning, trust and estate administration and private banking solutions to affluent individuals and ultra-affluent families.

Institutional Asset Management provides advisory, custody, and retirement administration services to institutional clients such as corporations, unions, municipalities, non-profits, foundations, and endowments. The business also offers PNC proprietary mutual funds and investment strategies. Institutional Asset Management is strengthening its partnership with Corporate & Institutional Banking to drive growth and is focused on building retirement capabilities and expanding product solutions for all customers.

The increase in assets under administration in the comparison to the prior year reflected growth in discretionary client assets under management, which was driven by higher equity markets.

Table of Contents

Residential Mortgage Banking

(Unaudited)

Table 12: Residential Mortgage Banking Table

Year ended December 31			Change	
Dollars in millions, except as noted	2016	2015	\$	%
INCOME STATEMENT				
Net interest income	\$ 107	\$ 121	\$ (14)	(12)%
Noninterest income	633	613	20	3%
Total revenue	740	734	6	1%
Provision for credit losses	—	2	(2)	(100)%
Noninterest expense	606	691	(85)	(12)%
Pretax earnings	134	41	93	227%
Income taxes	49	15	34	227%
Earnings	\$ 85	\$ 26	\$ 59	227%
AVERAGE BALANCE SHEET				
Loans held for sale	\$ 937	\$1,107	\$(170)	(15)%
Loans	\$ 970	\$1,140	\$(170)	(15)%
Mortgage servicing rights (MSR)	\$ 954	\$ 991	\$ (37)	(4)%
Total assets	\$6,053	\$6,840	\$(787)	(12)%
Total deposits	\$2,741	\$2,428	\$ 313	13%
PERFORMANCE RATIOS				
Return on average assets	1.40%	.38%		
Noninterest income to total revenue	86%	84%		
Efficiency	82%	94%		
RESIDENTIAL MORTGAGE SERVICING PORTFOLIO (in billions except where noted) (a)				
Serviced portfolio balance (b)	\$ 125	\$ 123	\$ 2	2%
Portfolio acquisitions	\$ 19	\$ 29	\$ (10)	(34)%
MSR asset value (b)	\$ 1.2	\$ 1.1	\$.1	9%
MSR capitalization value (in basis points) (b)	94	86	8	9%
Consolidated revenue from: (in millions) (c)				
Servicing fees, net (d)	\$ 192	\$ 178	\$ 14	8%
Mortgage servicing rights valuation, net of economic hedge	\$ 92	\$ 89	\$ 3	3%
OTHER INFORMATION				
Loan origination volume (in billions)	\$ 10.6	\$ 10.5	\$.1	1%
Loan sale margin percentage	3.17%	3.32%		
Loan sales revenue (e)	\$ 344	\$ 342	\$ 2	1%
Percentage of originations represented by:				
Purchase volume (f)	40%	45%		
Refinance volume	60%	55%		
Nonperforming assets (b) (g)	\$ 51	\$ 81	\$ (30)	(37)%

(a) Represents loans serviced for third parties.

(b) As of December 31.

(c) Represents consolidated amounts.

(d) Includes servicing fees and the impact of decreases in the value of MSRs due to passage of time, including the impact from both regularly scheduled loan prepayments and loans that were paid down or paid off during the period.

(e) Includes intercompany loan sales revenue from affiliates that is eliminated in consolidation of \$61 million and \$43 million for the years ended December 31, 2016 and 2015, respectively.

(f) Mortgages with borrowers as part of residential real estate purchase transactions.

(g) Includes nonperforming loans of \$29 million at December 31, 2016 and \$46 million at December 31, 2015.

Table of Contents

Residential Mortgage Banking earned \$85 million in 2016 compared to \$26 million 2015. The increase was primarily driven by a decline in noninterest expense and higher noninterest income.

The business is focused on acquiring new customers, with an emphasis on home purchase transactions, through a retail loan officer sales force by leveraging our bank footprint and competing on the basis of superior service.

Residential Mortgage Banking overview:

- Total loan originations increased 1% compared to 2015. Loans continue to be originated primarily through direct channels under Federal National Mortgage Association (FNMA), Federal Home Loan Mortgage Corporation (FHLMC) and Federal Housing Administration (FHA)/Department of Veterans Affairs agency guidelines. Refinancings were 60% of originations in 2016 and 55% in 2015.
- Lower net interest income was primarily due to reduced loans held for sale and portfolio loan balances as well as compressed interest rate margins.
- Higher noninterest income was driven by increased servicing fee income.
- Noninterest expense declined primarily as a result of lower legal reserves and residential mortgage foreclosure-related expenses.

BlackRock

(Unaudited)

Table 13: BlackRock Table

Information related to our equity investment in BlackRock follows:

Year ended December 31		
Dollars in millions	2016	2015
Business segment earnings (a)	\$532	\$548
PNC's economic interest in BlackRock (b)	22%	22%

(a) Includes our share of BlackRock's reported GAAP earnings and additional income taxes on those earnings incurred by us.

(b) At December 31.

In billions	December 31 2016	December 31 2015
Carrying value of our investment in BlackRock (c)	\$ 7.0	\$ 6.7
Market value of our investment in BlackRock (d)	13.4	12.0

(c) We account for our investment in BlackRock under the equity method of accounting, exclusive of a related deferred tax liability of \$2.3 billion at December 31, 2016 and \$2.2 billion at December 31, 2015. Our voting interest in BlackRock common stock was approximately 21% at December 31, 2016.

(d) Does not include liquidity discount.

In addition to our investment in BlackRock reflected in Table 13, at December 31, 2016, we held approximately .8 million shares of BlackRock Series C Preferred Stock valued at \$232 million, which are available to fund our obligation in connection with certain BlackRock long-term incentive plan (LTIP) programs. We account for the BlackRock Series C Preferred Stock at fair value, which offsets the impact of marking-to-market the obligation to deliver these shares to BlackRock. The fair value amount of the BlackRock Series C Preferred Stock is included on our Consolidated Balance Sheet within Other assets. Additional information regarding the valuation of the BlackRock Series C Preferred Stock is included in Note 6 Fair Value, and additional information regarding our BlackRock LTIP share obligations is included in Note 12 Stock Based Compensation Plans, both of which are in the Notes To Consolidated Financial Statements in Item 8 of this Report.

See Note 23 Subsequent Events in Item 8 of this Report for information on our February 1, 2017 transfer of .5 million shares of Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation.

Table of Contents

Non-Strategic Assets Portfolio

(Unaudited)

Table 14: Non-Strategic Assets Portfolio Table

Year ended December 31			Change	
Dollars in millions	2016	2015	\$	%
INCOME STATEMENT				
Net interest income	\$ 298	\$ 392	\$ (94)	(24)%
Noninterest income	43	53	(10)	(19)%
Total revenue	341	445	(104)	(23)%
Provision for credit losses (benefit)	(30)	(114)	84	74%
Noninterest expense	66	83	(17)	(20)%
Pretax earnings	305	476	(171)	(36)%
Income taxes	112	175	(63)	(36)%
Earnings	\$ 193	\$ 301	\$ (108)	(36)%
AVERAGE BALANCE SHEET				
Loans				
Commercial lending	\$ 700	\$ 737	\$ (37)	(5)%
Consumer lending				
Home equity	1,952	2,774	(822)	(30)%
Residential real estate	3,065	3,877	(812)	(21)%
Total consumer lending	5,017	6,651	(1,634)	(25)%
Total loans	5,717	7,388	(1,671)	(23)%
Other assets (a)	(265)	(682)	417	61%
Total assets	\$5,452	\$6,706	\$(1,254)	(19)%
PERFORMANCE RATIOS				
Return on average assets	3.54%	4.49%		
Noninterest income to total revenue	13%	12%		
Efficiency	19%	19%		
OTHER INFORMATION				
Nonperforming assets (b) (c)	\$ 410	\$ 529	\$ (119)	(22)%
Purchased impaired loans (b) (d)	\$2,419	\$2,839	\$ (420)	(15)%
Net charge-offs (recoveries)	\$ (3)	\$ (4)	\$ 1	25%
Loans (b)				
Commercial lending	\$ 693	\$ 713	\$ (20)	(3)%
Consumer lending				
Home equity	1,707	2,203	(496)	(23)%
Residential real estate	2,824	3,300	(476)	(14)%
Total consumer lending	4,531	5,503	(972)	(18)%
Total loans	\$5,224	\$6,216	\$ (992)	(16)%

(a) Other assets were negative in both periods due to the Allowance for loan and lease losses (ALLL).

(b) As of December 31.

(c) Includes nonperforming loans of \$.3 billion at December 31, 2016 and \$.4 billion at December 31, 2015.

(d) Recorded investment of purchased impaired loans related to acquisitions. This business segment contained 82% of PNC's purchased impaired loans at December 31, 2016 and 81% at December 31, 2015.

This business segment consists of non-strategic assets primarily obtained through acquisitions of other companies. The business activity of this segment is to manage the liquidation of the portfolios while maximizing the value and mitigating risk.

Non-Strategic Assets Portfolio earned \$193 million in 2016 compared with \$301 million in 2015. Earnings decreased primarily due to a declining loan portfolio and lower benefit from provision for credit losses in 2016.

[Table of Contents](#)

Non-Strategic Assets Portfolio overview:

- Lower net interest income resulted primarily from the impact of the declining average balance of the loan portfolio.
- The reduced benefit from provision for credit losses was driven by higher releases of reserves in 2015.
- Noninterest expense declined driven by lower costs of managing and servicing the loan portfolios as they continue to decline.
- Average loans decreased mainly due to customer payment activity and portfolio management activities to reduce under-performing assets.

2015 VERSUS 2014

Consolidated Income Statement Review

Summary Results

Net income for 2015 of \$4.1 billion, or \$7.39 per diluted common share, decreased compared to 2014 net income of \$4.2 billion, or \$7.30 per diluted common share. A decrease in revenue of 1% was partially offset by reductions in noninterest expense and the provision for credit losses. Lower revenue was driven by a 3% decrease in net interest income, offset in part by a 1% increase in noninterest income reflecting strong fee income growth.

Net Interest Income

Net interest income was \$8.3 billion in 2015 and decreased by \$247 million, or 3%, compared with 2014 due to lower purchase accounting accretion and lower interest-earning asset yields driven by the low rate environment, partially offset by commercial and commercial real estate loan growth and higher securities balances. The decline also reflected the impact from the second quarter 2014 correction to reclassify certain commercial facility fees from net interest income to noninterest income.

Net interest margin was 2.74% in 2015 and 3.08% in 2014. The decrease was driven by a 32 basis point decline in the yield on total interest-earning assets, which was principally due to the impact of increasing the company's liquidity position, lower loan and securities yields, and lower benefit from purchase accounting accretion. The decline also included the impact of the second quarter 2014 correction to reclassify certain commercial facility fees.

Noninterest Income

Noninterest income was \$6.9 billion for 2015 and 2014, as strong growth in consumer and corporate services fees and asset management revenue was partially offset by lower gains on asset sales and lower residential mortgage revenue. Noninterest income as a percentage of total revenue was 46% for 2015, up from 45% for 2014.

Asset management revenue increased \$54 million, or 4%, in 2015 to \$1.6 billion, compared to 2014, driven by new sales

production and stronger average equity markets, as well as the benefit from a \$30 million trust settlement in 2015. Discretionary client assets under management in the Asset Management Group were \$134 billion at December 31, 2015 compared with \$135 billion at December 31, 2014.

Consumer service fees increased \$81 million, or 6%, in 2015 compared to 2014, primarily due to growth in customer-initiated transaction volumes related to debit card, credit card and merchant services activity, along with higher brokerage revenue.

Corporate service fees increased to \$1.5 billion in 2015 compared to \$1.4 billion in 2014, driven by higher treasury management, commercial mortgage servicing and equity capital markets advisory fees, partially offset by lower merger and acquisition advisory fees. The increase also reflected the impact of the correction to reclassify certain commercial facility fees from net interest income to noninterest income beginning in the second quarter of 2014.

Residential mortgage revenue decreased to \$566 million in 2015 from \$618 million in 2014, primarily due to lower loan sales and servicing revenue, partially offset by higher net hedging gains on residential mortgage servicing rights.

Other noninterest income decreased to \$1.3 billion in 2015 compared to \$1.4 billion in 2014. The decline was primarily attributable to lower gains on asset dispositions, including the impact of the 2014 gain of \$94 million on the sale of our Washington, D.C. regional headquarters building and lower net gains on sales of Visa Class B common shares.

Net gains on sales of Visa Class B Common shares were \$166 million in 2015 compared to \$150 million in 2014. Net gains on Visa sales include derivative fair value adjustments related to swap agreements with purchasers of Visa shares in connection with all prior sales to date.

Provision For Credit Losses

The provision for credit losses totaled \$255 million in 2015 compared with \$273 million in 2014, reflecting improved credit quality.

Noninterest Expense

Noninterest expense decreased \$25 million to \$9.5 billion in 2015 compared to 2014, reflecting our focus on expense management. Higher personnel expense associated with higher business activity and investments in technology and business infrastructure were more than offset by lower legal and residential mortgage compliance costs and third party expenses, as well as the impact of the fourth quarter 2014 contribution to the PNC Foundation.

During 2015, we completed actions and exceeded our 2015 continuous improvement program goal of \$500 million in cost

Table of Contents

savings. The program focused on reducing costs in part to fund investments in technology and business infrastructure.

Effective Income Tax Rate

The effective income tax rate was 24.8% for 2015 compared with 25.1% for 2014. The effective tax rate is generally lower than the statutory rate primarily due to tax credits we receive from our investments in low income housing and new markets investments, as well as earnings in other tax exempt investments.

The effective tax rate for 2015 included tax benefits attributable to settling acquired entity tax contingencies.

Consolidated Balance Sheet Review

Summary Results

Our balance sheet reflected asset growth and strong liquidity and capital positions at December 31, 2015. Total assets increased in 2015 compared to 2014 primarily due to an increase of \$14.7 billion in investment securities driven by deposit growth. Total liabilities increased in 2015 compared to 2014 mainly due to an increase in deposits. Total equity in 2015 remained relatively stable compared to 2014 mainly due to increased retained earnings driven by net income, offset by share repurchases and redemption of preferred stock.

Loans

Loans increased \$1.9 billion to \$206.7 billion as of December 31, 2015 compared with December 31, 2014. Loan growth was the result of an increase in total commercial lending driven by commercial real estate loans, partially offset by a decline in consumer lending due to lower home equity, education and automobile loans.

Average total loans increased by \$5.7 billion to \$205.3 billion in 2015, which was driven by increases in average commercial loans of \$5.7 billion and average commercial real estate loans of \$2.5 billion. These increases were partially offset by a decrease in consumer loans of \$2.4 billion primarily attributable to lower home equity and education loans, which included declines in the non-strategic consumer loan portfolio.

Investment Securities

Investment securities increased \$14.7 billion to \$70.5 billion at December 31, 2015 compared to December 31, 2014, due to deposit growth. The majority of increases were in U.S. Treasury and government agency securities and agency residential mortgage-backed securities.

Average investment securities increased to \$61.7 billion during 2015 compared to \$55.8 billion during 2014, primarily due to increases in average agency residential mortgage-backed securities and U.S. Treasury and government agency securities, partially offset by a decrease in average non-agency residential mortgage-backed securities.

The weighed-average expected maturity of the investment securities portfolio (excluding corporate stock and other) was 4.8 years at December 31, 2015 and 4.3 years at December 31, 2014.

Funding Sources

Total deposits increased \$16.8 billion to \$249.0 billion at December 31, 2015 compared with December 31, 2014 due to strong growth in savings, demand and money market deposits, partially offset by a decline in retail certificates of deposit.

Average total deposits increased \$17.4 billion to \$240.4 billion in 2015 compared with 2014, primarily due to increases in average money market deposits, average non-interest-bearing deposits and average interest-bearing demand deposits driven by both commercial and retail deposit growth.

Total borrowed funds decreased \$2.2 billion to \$54.5 billion at December 31, 2015 compared with December 31, 2014, as declines in commercial paper, federal funds purchased and repurchase agreements and subordinated debt were partially offset by higher net issuances of bank notes and senior debt.

Average borrowed funds increased to \$56.5 billion in 2015 from \$48.8 billion in 2014 primarily due to an increase in average FHLB borrowings and average bank notes and senior debt. These increases were partially offset by a decline in average commercial paper balances. The changes in the composition of funding sources were attributable to our actions to enhance our funding structure in light of regulatory liquidity standards and a rating agency methodology change.

Shareholders' Equity

Total shareholders' equity increased \$159 million to \$44.7 billion at December 31, 2015 compared with December 31, 2014, mainly due to a \$2.8 billion increase in retained earnings, partially offset by common share repurchases of \$2.1 billion and the redemption of \$500 million of preferred stock. The increase in retained earnings was driven by net income of \$4.1 billion, reduced by \$1.3 billion of common and preferred dividends declared. Common shares outstanding were 504 million and 523 million at December 31, 2015 and 2014, respectively.

RISK MANAGEMENT

Enterprise Risk Management

We have an Enterprise Risk Management Framework which is structurally aligned with enhanced prudential standards that establish minimum requirements for the design and implementation of a risk governance framework. We encounter risk as part of the normal course of operating our business. Accordingly, we design risk management processes to help manage this risk. We manage risk in light of our Risk Appetite to optimize long-term shareholder value while supporting our employees, customers, and communities.

Table of Contents

This Risk Management section describes our Enterprise Risk Management (ERM) Framework which consists of risk culture, enterprise strategy (including Risk Appetite, strategic planning, capital planning and stress testing), risk governance and oversight, risk identification, risk assessments, risk controls and monitoring, and risk aggregation and reporting. The overall Risk Management section of this Item 7 also provides an analysis of our key areas of risk, which include but are not limited to credit, liquidity and capital, market, operational and compliance. Our use of financial derivatives as part of our overall asset and liability risk management process is also addressed within the risk management section.

We operate within a rapidly evolving regulatory environment. Accordingly, we are actively focused on the timely adoption of regulatory pronouncements within our ERM Framework.

We view risk management as a cohesive combination of the following risk elements which form our ERM Framework:



Risk Culture

A strong risk culture helps us make well-informed decisions, ensures individuals conform to the established culture, reduces an individual's ability to do something for personal gain, and rewards employees working toward a common goal rather than individual interests. Our risk culture reinforces the appropriate protocols for responsible and ethical behavior. These protocols are especially critical in terms of our risk awareness, risk-taking behavior and risk management practices.

Managing risk is every one of our employee's responsibility. All of our employees individually and collectively assume responsibility for ensuring the organization is performing with the utmost integrity, is applying sound risk management practices and is striving to achieve our stated objectives rather than pursuing individual interests. All employees are responsible for understanding our Enterprise Risk Appetite Statement, the ERM Framework and how risk management applies to their respective roles and responsibilities.

Employees are encouraged to collaborate across groups to identify and mitigate risks, and elevate issues as required. We reinforce risk management responsibilities through a performance management system where employee performance goals include risk management objectives and incentives for employees to reinforce balanced measures of risk-adjusted performance.

Proactive communication, between groups and up to the Board of Directors, facilitates timely identification and resolution of risk issues. Our multi-level risk committee structure provides a formal channel to identify, decision, and report risk.

Enterprise Strategy

We ensure that our overall enterprise strategy is within acceptable risk parameters through Risk Appetite, strategic planning, capital planning and stress testing processes. These components are reviewed and approved at least annually by the Board of Directors.

Risk Appetite: Our risk appetite represents the organization's desired enterprise risk position, set within our capital based risk and liquidity capacity to achieve our strategic objectives and business plans. The Enterprise Risk Appetite Statement qualitatively describes the aggregate level of risk we are willing to accept in order to execute our business strategies. Qualitative guiding principles further define each of the risks within our taxonomy to support the risk appetite statement. Risk Appetite metrics and limits, including forward-looking metrics, quantitatively measure whether we are operating within our stated Risk Appetite. Our Risk Appetite metrics reflect material risks, align with our established Risk Appetite Framework, balance risk and reward, leverage analytics, and adjust in a timely manner to changes in the external and internal risk environments.

Strategic Planning: Our enterprise and line of business strategic plans outline major objectives, strategies, and goals which are expected to be achieved over the next five years while seeking to ensure we remain compliant with all capital, Risk Appetite, and liquidity targets and guidelines. Our CEO and CFO lead the development of the strategic plan, the strategic objectives, and the comprehensive identification of material risks that could hinder successful implementation and execution of strategies. Strategic planning is linked to our risk management and capital planning processes.

Capital Planning and Stress Testing: Capital planning helps to ensure we are maintaining safe and sound operations and viability. The capital planning process and the resulting capital plan evolve as our overall risks, activities, and risk management practices change. Capital planning aligns with our strategic planning process.

Table of Contents

Stress testing is an essential element of the capital planning process. Effective stress testing enables us to consider the estimated effect on capital of various hypothetical scenarios.

Risk Governance and Oversight

We employ a comprehensive risk management governance framework to help ensure that risks are identified, balanced decisions are made that consider risk and return, and risks are adequately monitored and managed. Risk committees established within this risk governance and oversight framework provide oversight for risk management activities at the Board of Directors, executive, corporate, and business levels. Committee composition is designed to provide effective oversight balanced across the three lines of defense in accordance with the OCC's heightened risk management and governance expectations and guidelines. See discussion of the enhanced prudential standards in the Supervision and Regulation section in Item 1 of this Report.

To ensure the appropriate risks are being taken and effectively managed and controlled, risk is managed across three lines of defense. The Board's and each line of defense's responsibilities are detailed below:

Board of Directors – The Board of Directors oversees our risk-taking activities and exercises sound, independent judgment when assessing risk.

First line of defense – The front line units are accountable for identifying, owning and managing risks to within acceptable levels while adhering to the risk management framework established by Independent Risk Management. Our businesses strive to enhance risk management and internal control processes within their areas. Integrated and comprehensive processes are designed to adequately identify, measure, manage, monitor and report risks which may significantly impact each business. The manner in which the first line of defense executes its responsibilities must reflect our risk culture.

Second line of defense – The second line of defense is independent from the first line of defense and is responsible for establishing the standards for identifying, measuring, monitoring and controlling aggregate risks. As the second line of defense, the independent risk areas monitor the risks generated by the first line of defense, review and challenge the implementation of effective risk management practices, and report any issues or exceptions. The risk areas help to ensure the first line of defense is properly designed and operating as intended, and they may intervene directly in modifying and developing first line of defense risk processes and controls.

Third line of defense – As the third line of defense, Internal Audit is independent from the first and second lines of defense. Internal audit provides the Board of

Directors and executive management comprehensive assurance on the effectiveness of risk management practices across the organization.

Within the three lines of defense, the independent risk organization has sufficient authority to influence material decisions. Our business oversight and decision-making is supported through a governance structure at the Board of Directors and management level. Specific responsibilities include:

Board of Directors – Our Board of Directors oversees our business and affairs as managed by our officers and employees. The Board of Directors may receive assistance in carrying out its duties and may delegate authority through the following standing committees:

- *Audit Committee*: monitors the integrity of our consolidated financial statements; monitors internal control over financial reporting; monitors compliance with our code of ethics; evaluates and monitors the qualifications and independence of our independent auditors; and evaluates and monitors the performance of our internal audit function and our independent auditors.
- *Nominating and Governance Committee*: promotes our best interests and those of our shareholders through implementation of sound corporate governance principles and practices.
- *Personnel and Compensation Committee*: oversees the compensation of our executive officers and other specified responsibilities related to personnel compensation matters affecting us.
- *Risk Committee*: oversees enterprise-wide risk structure and the processes established to identify, measure, monitor, and manage the organization's risks and evaluates and approves our risk governance framework.

Corporate Committees – The corporate committees are responsible for overseeing risk standards and strategies, recommending risk limits, policies and metrics, monitoring risk exposures, reviewing risk profiles and key risk issues, and approving significant transactions and initiatives. We have established several senior management-level corporate committees to facilitate the review, evaluation, and management of risk. The management-level Executive Committee is the corporate committee that is responsible for developing enterprise-wide strategy and achieving our strategic objectives. The Executive Committee evaluates risk management, in part, by monitoring risk reporting from the other corporate committees which are the supporting committees for the Executive Committee.

Working Committees – The working committees are generally subcommittees of the corporate committees. Working committees are intended to assist in the implementation of key enterprise-level activities within a business or function; recommend and/or approve Risk

Table of Contents

Appetite metrics and limits; recommend and/or approve policies that are generally within the standards outlined in the applicable enterprise policy; and review and/or approve certain significant transactions or initiatives.

Policies and Procedures – We have established risk management policies and procedures to provide direction, guidance, and clarity on roles and responsibilities to management and the Board of Directors. These policies and procedures are organized in a multi-tiered framework and require periodic review and approval by relevant committees within the governance structure.

We have established risk management policies, programs and procedures to support our ERM Framework, articulate our risk culture, define the parameters and processes within which employees are to manage risk and conduct our business activities and to provide direction, guidance, and clarity on roles and responsibilities to management and the Board of Directors. These policies, programs and procedures are organized in a multi-tiered framework and require periodic review and approval by relevant committees within the governance structure.

Risk Identification

Risk identification takes place across a variety of risk types throughout the organization. These risk types consist of, but are not limited to, credit, liquidity and capital, market, operational and compliance. Risks are identified based on a balanced use of analytical tools and management judgment for both on- and off-balance sheet exposures. Our governance structure supports risk identification by facilitating assessment of key risk issues, emerging risks, and idiosyncratic risks and implementation of mitigation strategies as appropriate. These risks are prioritized based on quantitative and qualitative analysis and assessed against the Risk Appetite. Multiple tools and approaches are used to help identify and prioritize risks, including Risk Appetite Metrics, Key Risk Indicators (KRIs), Key Performance Indicators (KPIs), Risk Control and Self-Assessments (RCSAs), scenario analysis, stress testing and special investigations.

Risks are aggregated and assessed within and across risk functions or businesses. The aggregated risk information is reviewed and reported at an enterprise level for adherence to the Risk Appetite framework as established through the policy framework and approved by the Board of Directors or by appropriate committees. This enterprise aggregation and reporting approach promotes the identification and appropriate escalation of material risks across the organization and supports an understanding of the cumulative impact of risk in relation to our Risk Appetite.

Risk Assessment

Once risks are identified, they are evaluated based on quantitative and qualitative analysis to determine whether they are material. Risk assessments support the overall

management of an effective ERM Framework and allows us to control and monitor our actual risk level through the use of risk measures. Comprehensive, accurate and timely assessments of risk are essential to an effective ERM Framework. The use of analytical tools and methods help identify and prioritize risks. Effective risk measurement practices will uncover reoccurring risks that have been experienced in the past; make the known risks easy to see, understand, compare and report; and reveal unanticipated risks that may not be easy to understand or predict.

Risk Controls and Monitoring

Our ERM Framework consists of policies, processes, personnel, and control systems. Risk controls and limits provide the linkage from our Risk Appetite Statement and associated guiding principles to the risk taking activities of our businesses. In addition to Risk Appetite limits, a system of more detailed internal controls exists which oversees and monitors our various processes and functions. These control systems measure performance, help employees make correct decisions, ensure information is accurate and reliable and document compliance with laws and regulations.

Our monitoring and evaluation of risks and controls provides assurance that policies, procedures and controls are effective and also results in the identification of control improvement recommendations. Risk monitoring is a daily, on-going process used by both the first and second line of defense to ensure compliance with our ERM Framework. Risk monitoring is accomplished in many ways, including performing risk assessments at the prime process and risk assessment unit level, monitoring an area's key controls, the timely reporting of issues, and establishing a quality assurance and/or quality control function, as applicable.

Risk Aggregation and Reporting

Risk reporting is a comprehensive way to: (i) aggregate risks; (ii) identify concentrations; (iii) help ensure we remain within our established Risk Appetite; (iv) serve as a basis for monitoring our risk profile in relation to our Risk Appetite and (v) communicate risks to the Board of Directors and executive management.

Risk reports are produced at the line of business, functional risk and the enterprise levels. The enterprise level risk report aggregates risks identified in the functional and business reports to define the enterprise risk profile. The enterprise risk profile is a point-in-time assessment of enterprise risk. The risk profile represents our overall risk position in relation to the desired enterprise Risk Appetite. The determination of the enterprise risk profile is based on analysis of quantitative reporting of risk limits and other measures along with qualitative assessments. Quarterly aggregation of our risk profile enables a clear view of our risk level relative to our quantitative Risk Appetite. The enterprise level report is provided through the governance structure to the Board of Directors.

Table of Contents

Risk reports are produced at the enterprise level as well as the risk area, line of business, and support area levels. Each individual risk report includes an assessment of inherent risk, quality of risk management, residual risk, Risk Appetite, and risk outlook. The enterprise risk report includes an aggregate view of risks identified in the individual report and provides a summary of our overall risk profile compared to our Risk Appetite.

Credit Risk Management

Credit risk represents the possibility that a customer, counterparty or issuer may not perform in accordance with contractual terms. Credit risk is inherent in the financial services business and results from extending credit to customers, purchasing securities, and entering into financial derivative transactions and certain guarantee contracts. Credit risk is one of our most significant risks. Our processes for managing credit risk are embedded in our risk culture and in our decision-making processes using a systematic approach whereby credit risks and related exposures are identified and assessed, managed through specific policies and processes, measured and evaluated against our risk appetite and credit concentration limits, and reported, along with specific

mitigation activities, to management and the Board of Directors through our governance structure. Our most significant concentration of credit risk is in our loan portfolio.

Nonperforming Assets and Loan Delinquencies

Nonperforming Assets

Nonperforming assets include nonperforming loans and leases for which ultimate collectability of the full amount of contractual principal and interest is not probable and include nonperforming troubled debt restructurings (TDRs), other real estate owned (OREO), foreclosed and other assets. Loans held for sale, certain government insured or guaranteed loans, purchased impaired loans and loans accounted for under the fair value option are excluded from nonperforming loans. Additional information regarding our nonperforming loans and nonaccrual policies is included in Note 1 Accounting Policies in the Notes To Consolidated Financial Statements in Item 8 of this Report. A summary of the major categories of nonperforming assets are presented in Table 15. See Note 3 Asset Quality in the Notes To Consolidated Financial Statements in Item 8 of this Report for further detail of nonperforming asset categories.

Table 15: Nonperforming Assets by Type

Dollars in millions	December 31 2016	December 31 2015	Change	
			\$	%
Nonperforming loans				
Commercial lending	\$ 655	\$ 545	\$ 110	20%
Consumer lending (a)	1,489	1,581	(92)	(6)%
Total nonperforming loans (b)	2,144	2,126	18	1%
OREO, foreclosed and other assets	230	299	(69)	(23)%
Total nonperforming assets	\$ 2,374	\$ 2,425	\$ (51)	(2)%
Amount of TDRs included in nonperforming loans	\$ 1,112	\$ 1,119	\$ (7)	(1)%
Percentage of total nonperforming loans	52%	53%		
Nonperforming loans to total loans	1.02%	1.03%		
Nonperforming assets to total loans, OREO, foreclosed and other assets	1.12%	1.17%		
Nonperforming assets to total assets	.65%	.68%		
Allowance for loan and lease losses to total nonperforming loans	121%	128%		

(a) Excludes most consumer loans and lines of credit not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

(b) The recorded investment of loans collateralized by residential real estate property that are in process of foreclosure was \$4 billion and \$6 billion at December 31, 2016 and December 31, 2015, respectively, and included \$2 billion and \$3 billion, respectively, of loans that are government insured/guaranteed.

Table 16: Change in Nonperforming Assets

In millions	2016	2015
January 1	\$2,425	\$2,880
New nonperforming assets	1,835	1,459
Charge-offs and valuation adjustments	(604)	(499)
Principal activity, including paydowns and payoffs	(697)	(687)
Asset sales and transfers to loans held for sale	(336)	(364)
Returned to performing status	(249)	(364)
December 31	\$2,374	\$2,425

As of December 31, 2016, approximately 84% of total nonperforming loans were secured by collateral which lessened reserve requirements and is expected to reduce credit losses in the event of default. As of December 31, 2016, commercial lending nonperforming loans were carried at approximately 66% of their unpaid principal balance, due to charge-offs recorded to date, before consideration of the ALLL.

Table of Contents

Within consumer nonperforming loans, residential real estate TDRs comprise 70% of total residential real estate nonperforming loans at December 31, 2016, up from 68% at December 31, 2015. Home equity TDRs comprise 52% of home equity nonperforming loans at December 31, 2016 and 51% at December 31, 2015. TDRs generally remain in nonperforming status until a borrower has made at least six consecutive months of both principal and interest payments under the modified terms or ultimate resolution occurs. Loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and loans to borrowers not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status.

At December 31, 2016, our largest nonperforming asset was \$46 million in the Mining, Quarrying, Oil and Gas Extraction Industry and our average nonperforming loan associated with commercial lending was less than \$1 million. The ten largest individual nonperforming assets are from the commercial lending portfolio and represented 40% and 11% of total commercial lending nonperforming loans and total nonperforming assets, respectively, as of December 31, 2016.

Loan Delinquencies

We regularly monitor the level of loan delinquencies and believe these levels may be a key indicator of loan portfolio asset quality. Measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent. Loan delinquencies exclude loans held for sale and purchased impaired loans, but include government insured or guaranteed loans and loans accounted for under the fair value option.

Table 17: Accruing Loans Past Due (a)

Dollars in millions	Amount				Percentage of Total Loans Outstanding	
	December 31	December 31	Change		December 31	December 31
	2016	2015	\$	%	2016	2015
Early stage loan delinquencies						
Accruing loans past due 30 to 59 days	\$ 562	\$ 511	\$ 51	10%	.27%	.25%
Accruing loans past due 60 to 89 days	232	248	(16)	(6)%	.11%	.12%
Total	794	759	35	5%	.38%	.37%
Late stage loan delinquencies						
Accruing loans past due 90 days or more	782	881	(99)	(11)%	.37%	.43%
Total	\$ 1,576	\$ 1,640	\$(64)	(4)%	.75%	.80%

(a) Past due loan amounts include government insured or guaranteed loans of \$9 billion and \$1.1 billion as of December 31, 2016 and December 31, 2015, respectively.

Accruing loans past due 90 days or more decreased at December 31, 2016 compared to December 31, 2015 driven by declines in government insured residential real estate and other consumer loans. Accruing loans past due 90 days or more are not included in nonperforming loans and continue to accrue interest because they are well secured by collateral and are in the process of collection, or are managed in homogenous portfolios with specified charge-off timeframes adhering to regulatory guidelines, or are certain government insured or guaranteed loans.

Home Equity Loan Portfolio

Our home equity loan portfolio totaled \$29.9 billion as of December 31, 2016, or 14% of the total loan portfolio. Of that total, \$17.7 billion, or 59%, were outstanding under primarily variable-rate home equity lines of credit and \$12.2 billion, or 41%, consisted of closed-end home equity installment loans. Approximately 4% of the home equity portfolio was purchased impaired and 3% of the home equity portfolio was on nonperforming status as of December 31, 2016.

As of December 31, 2016, we were in an originated first lien position for approximately 55% of the total outstanding

portfolio and, where originated as a second lien, we held or serviced the first lien position for an additional 3% of the portfolio. The remaining 42% of the portfolio was secured by second liens where we do not hold the first lien position. The credit performance of the majority of the home equity portfolio where we are in, hold or service the first lien position, is superior to the portion of the portfolio where we hold the second lien position but do not hold the first lien. Lien position information is generally based upon original LTV at the time of origination. We use an industry-leading third-party service provider to obtain updated loan, lien and collateral data that is aggregated from public and private sources.

We track borrower performance monthly, including obtaining original LTVs and updated FICO scores at least quarterly, updated LTVs semi-annually, and other credit metrics at least quarterly, including the historical performance of any mortgage loans regardless of lien position that we do or do not hold. This information is used for internal reporting and risk management. For internal reporting and risk management we also segment the population into pools based on product type (e.g., home equity loans, brokered home equity loans, home equity lines of credit,

Table of Contents

brokered home equity lines of credit). As part of our overall risk analysis and monitoring, we segment the home equity portfolio based upon the loan delinquency, modification status and bankruptcy status, as well as the delinquency, modification status and bankruptcy status of any mortgage loan with the same borrower (regardless of whether it is a first lien senior to our second lien).

In establishing our ALLL for non-impaired loans, we utilize a delinquency roll-rate methodology for pools of loans. The roll-rate methodology estimates transition/roll of loan balances from one delinquency state to the next delinquency state and ultimately to charge-off. The roll through to charge-off is based on our actual loss experience for each type of pool. Each of our home equity pools contains both first and second liens. Our experience has been that the ratio of first to second lien loans has been consistent over time and the charge-off amounts for the pools, used to establish our allowance, include losses on both first and second lien loans.

Generally, our variable-rate home equity lines of credit have either a seven or ten year draw period, followed by a 20-year amortization term. During the draw period, we have home equity lines of credit where borrowers pay either interest only or principal and interest. We view home equity lines of credit where borrowers are paying principal and interest under the draw period as less risky than those where the borrowers are paying interest only, as these borrowers have a demonstrated ability to make some level of principal and interest payments. The risk associated with the borrower's ability to satisfy the loan terms upon the draw period ending is considered in establishing our ALLL. Based upon outstanding balances at December 31, 2016, the following table presents the periods when home equity lines of credit draw periods are scheduled to end.

Table 18: Home Equity Lines of Credit – Draw Period End Dates

In millions	Interest Only Product	Principal and Interest Product
2017	\$ 1,657	\$ 434
2018	796	636
2019	546	483
2020	442	434
2021 and thereafter	2,960	6,438
Total (a)(b)	\$ 6,401	\$ 8,425

(a) Includes all home equity lines of credit that mature in 2017 or later, including those with borrowers where we have terminated borrowing privileges.

(b) Includes home equity lines of credit with balloon payments, including those where we have terminated borrowing privileges, of \$35 million, \$27 million, \$20 million, \$71 million and \$416 million with draw periods scheduled to end in 2017, 2018, 2019, 2020 and 2021 and thereafter, respectively.

Based upon outstanding balances, and excluding purchased impaired loans, at December 31, 2016, for home equity lines of credit for which the borrower can no longer draw (e.g., draw period has ended or borrowing privileges have been

terminated), approximately 3% were 30-89 days past due and approximately 6% were 90 days or more past due, which are accounted for as nonperforming. Generally, when a borrower becomes 60 days past due, we terminate borrowing privileges and those privileges are not subsequently reinstated. At that point, we continue our collection/recovery processes, which may include loan modification resulting in a loan that is classified as a TDR.

Auto Loan Portfolio

The auto loan portfolio totaled \$12.4 billion as of December 31, 2016, or 6% of our total loan portfolio. Of that total, \$10.8 billion resides in the indirect auto portfolio, \$1.3 billion in the direct auto portfolio, and \$.3 billion in acquired or securitized portfolios, which has been declining as no pools have been recently acquired. Indirect auto loan applications are generated from franchised automobile dealers. This business is strategically aligned with our core retail business.

We have elected not to pursue non-prime auto lending as evidenced by an average new loan origination FICO score during 2016 of 760 for indirect auto loans and 775 for direct auto loans. As of December 31, 2016, .4% of our auto loan portfolio was nonperforming and .5% of the portfolio was accruing past due. We offer both new and used automobile financing to customers through our various channels. The portfolio was composed of 57% new vehicle loans and 43% used vehicle loans at December 31, 2016.

The auto loan portfolio's performance is measured monthly, including updated collateral values that are obtained monthly and updated FICO scores that are obtained at least quarterly. For internal reporting and risk management, we analyze the portfolio by product channel and product type, and regularly evaluate default and delinquency experience. As part of our overall risk analysis and monitoring, we segment the portfolio by loan structure, collateral attributes, and credit metrics which include FICO score, loan-to-value and term.

Energy Related Loan Portfolio

Our portfolio of loans outstanding in the oil and gas industry totaled \$2.4 billion as of December 31, 2016, or 1% of our total loan portfolio and 2% of our total commercial lending portfolio. This portfolio comprised approximately \$1.0 billion in the midstream and downstream sectors, \$.8 billion to oil services companies and \$.6 billion to upstream sectors. Of the oil services portfolio, approximately \$.2 billion is not asset-based or investment grade. Nonperforming loans in the oil and gas sector as of December 31, 2016 totaled \$184 million, or 8% of total nonperforming assets.

Our portfolio of loans outstanding in the coal industry totaled \$.4 billion as of December 31, 2016, or less than 1% of both our total loan portfolio and our total commercial lending portfolio. Nonperforming loans in the coal industry as of December 31, 2016 totaled \$61 million, or 3% of total nonperforming assets.

Table of Contents

Loan Modifications and Troubled Debt Restructurings

Consumer Loan Modifications

We modify loans under government and PNC-developed programs based upon our commitment to help eligible homeowners and borrowers avoid foreclosure, where appropriate. Initially, a borrower is evaluated for a modification under a government program. If a borrower does not qualify under a government program, the borrower is then evaluated under a PNC program. Our programs utilize both temporary and permanent modifications and typically reduce the interest rate, extend the term and/or defer principal. Loans that are either temporarily or permanently modified under programs involving a change to loan terms are generally classified as TDRs. Further, loans that have certain types of payment plans and trial payment arrangements which do not include a contractual change to loan terms may be classified as TDRs.

A temporary modification, with a term between three and 24 months, involves a change in original loan terms for a period of time and reverts to a calculated exit rate for the remaining term of the loan as of a specific date. A permanent modification, with a term greater than 24 months, is a modification in which the terms of the original loan are changed. Permanent modification programs generally result in principal forgiveness, interest rate reduction, term extension, capitalization of past due amounts, interest-only period or deferral of principal.

We also monitor the success rates and delinquency status of our loan modification programs to assess their effectiveness in serving our borrowers' and servicing customers' needs while mitigating credit losses. Table 19 provides the number of accounts and unpaid principal balance of modified consumer real estate related loans at the end of each year presented.

Table 19: Consumer Real Estate Related Loan Modifications

	December 31, 2016		December 31, 2015	
	Number of Accounts	Unpaid Principal Balance	Number of Accounts	Unpaid Principal Balance
Temporary modifications	3,484	\$ 258	4,469	\$ 337
Permanent modifications	23,904	2,693	24,055	2,809
Total consumer real estate related loan modifications	27,388	\$2,951	28,524	\$3,146

Dollars in millions

Commercial Loan Modifications

Modifications of terms for commercial loans are based on individual facts and circumstances. Commercial loan modifications may involve reduction of the interest rate, extension of the loan term and/or forgiveness of principal. Modified commercial loans are usually already nonperforming prior to modification. We evaluate these modifications for TDR classification based upon whether we granted a concession to a borrower experiencing financial difficulties.

Troubled Debt Restructurings

A TDR is a loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. TDRs result from our loss mitigation activities and include rate reductions, principal forgiveness, postponement/reduction of scheduled amortization and extensions, which are intended to minimize economic loss and to avoid foreclosure or repossession of collateral. Additionally, TDRs also result from court imposed concessions (e.g. a Chapter 7 bankruptcy where the debtor is discharged from personal liability to us and a court approved Chapter 13 bankruptcy repayment plan).

Table 20: Summary of Troubled Debt Restructurings (a)

In millions	December 31 2016	December 31 2015	Change	
			\$	%
Total consumer lending	\$ 1,793	\$ 1,917	\$(124)	(6)%
Total commercial lending	428	434	(6)	(1)%
Total TDRs	\$ 2,221	\$ 2,351	\$(130)	(6)%
Nonperforming	\$ 1,112	\$ 1,119	\$ (7)	(1)%
Accruing (b)	1,109	1,232	(123)	(10)%
Total TDRs	\$ 2,221	\$ 2,351	\$(130)	(6)%

(a) Amounts in table represent recorded investment, which includes the unpaid principal balance plus accrued interest and net accounting adjustments, less any charge-offs. Recorded investment does not include any associated valuation allowance.

(b) Accruing loans include consumer credit card loans and loans that have demonstrated a period of at least six months of performance under the restructured terms and are excluded from nonperforming loans.

Excluded from TDRs are \$1.2 billion of consumer loans held for sale, loans accounted for under the fair value option and pooled purchased impaired loans, as well as certain government insured or guaranteed loans at both December 31, 2016 and December 31, 2015. Nonperforming TDRs represented approximately 52% and 53% of total nonperforming loans, and 50% and 48% of total TDRs at December 31, 2016 and December 31, 2015, respectively. The remaining portion of TDRs represents TDRs that have been returned to accrual accounting after performing under the restructured terms for at least six consecutive months.

Allowances for Loan and Lease Losses and Unfunded Loan Commitments and Letters of Credit

We maintain an ALLL to absorb losses from the loan and lease portfolio and determine this allowance based on quarterly assessments of the estimated probable credit losses incurred in the loan and lease portfolio. Our total ALLL of \$2.6 billion at December 31, 2016 consisted of \$1.5 billion and \$1.1 billion established for the commercial lending and consumer lending categories, respectively. We maintain the ALLL at a level that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolio as of the balance sheet date. The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan and lease portfolio performance experience, the financial strength of the borrower, and economic conditions. Key reserve assumptions are periodically updated.

We establish specific allowances for loans considered impaired using methods prescribed by GAAP. All impaired loans are subject to individual analysis, except leases and large groups of smaller-balance homogeneous loans which may include, but are not limited to, credit card, residential real estate secured and consumer installment loans. Specific allowances for individual loans (including commercial and consumer TDRs) are determined based on an analysis of the present value of expected future cash flows from the loans discounted at their effective interest rate, observable market price or the fair value of the underlying collateral.

Reserves are established for non-impaired commercial loan classes based on probability of default (PD) and loss given default (LGD) credit risk ratings.

Our commercial pool reserve methodology is sensitive to changes in key risk parameters such as PD and LGD. The results of these parameters are then applied to the loan balance and unfunded loan commitments and letters of credit to determine the amount of the respective reserves. The majority of the commercial portfolio is secured by collateral, including loans to asset-based lending customers, which generally demonstrate lower LGD compared to loans not secured by collateral. Our PDs and LGDs are primarily determined using internal commercial loan loss data. This internal data is supplemented with third-party data and management judgment, as deemed necessary. We continue to evaluate and enhance our use of internal commercial loss data and will periodically update our PDs and LGDs as well as consider third-party data, regulatory guidance and management judgment.

Allocations to non-impaired consumer loan classes are primarily based upon a roll-rate model which uses statistical relationships, calculated from historical data that estimate the movement of loan outstandings through the various stages of delinquency and ultimately charge-off.

A portion of the ALLL is related to qualitative and measurement factors. These factors may include, but are not limited to, the following:

- Industry concentrations and conditions,
- Recent credit quality trends,
- Recent loss experience in particular portfolios,
- Recent macro-economic factors,
- Model imprecision,
- Changes in lending policies and procedures,
- Timing of available information, including the performance of first lien positions, and
- Limitations of available historical data.

Our determination of the ALLL for non-impaired loans is sensitive to the risk grades assigned to commercial loans and loss rates for consumer loans. There are several other qualitative and quantitative factors considered in determining the ALLL. This sensitivity analysis does not necessarily reflect the nature and extent of future changes in the ALLL. It is intended to provide insight into the impact of adverse changes to risk grades and loss rates only and does not imply any expectation of future deterioration in the risk ratings or loss rates. Given the current processes used, we believe the risk grades and loss rates currently assigned are appropriate. In the hypothetical event that the aggregate weighted average commercial loan risk grades would experience a 1% deterioration, assuming all other variables remain constant, the allowance for commercial loans would increase by approximately \$40 million as of December 31, 2016. In the hypothetical event that consumer loss rates would increase by 10%, assuming all other variables remain constant, the allowance for consumer loans would increase by approximately \$25 million at December 31, 2016.

Purchased impaired loans are initially recorded at fair value and applicable accounting guidance prohibits the carry over or creation of valuation allowances at acquisition. Because the initial fair values of these loans already reflect a credit component, additional reserves are established when performance is expected to be worse than our expectations as of the acquisition date. At December 31, 2016, we had established reserves of \$.3 billion for purchased impaired loans. In addition, loans (purchased impaired and non-impaired) acquired after January 1, 2009 were recorded at fair value. No allowance for loan losses was carried over and no allowance was created at the date of acquisition.

In determining the appropriateness of the ALLL, we make specific allocations to impaired loans and allocations to portfolios of commercial and consumer loans. We also allocate reserves to provide coverage for probable losses incurred in the portfolio at the balance sheet date based upon current market conditions, which may not be reflected in historical loss data. Commercial lending is the largest category of credits and is sensitive to changes in assumptions and judgments underlying the determination of the ALLL.

Table of Contents

In addition to the ALLL, we maintain an allowance for unfunded loan commitments and letters of credit. We report this allowance as a liability on our Consolidated Balance Sheet. We maintain the allowance for unfunded loan commitments and letters of credit at a level we believe is appropriate to absorb estimated probable losses on these unfunded credit facilities. We determine this amount using estimates of the probability of the ultimate funding and losses related to those credit exposures. Other than the estimation of the probability of funding, this methodology is very similar to the one we use for determining our ALLL.

See Note 1 Accounting Policies and Note 3 Asset Quality in the Notes To Consolidated Financial Statements in Item 8 of this Report for further information on certain key asset quality indicators that we use to evaluate our portfolios and establish the allowances.

Table 21: Allowance for Loan and Lease Losses

Dollars in millions	2016	2015
January 1	\$2,727	\$3,331
Total net charge-offs	(543)	(386)
Provision for credit losses	433	255
Net change in allowance for unfunded loan commitments and letters of credit	(40)	(2)
Net recoveries / (write-offs) of purchased impaired loans and other	12	(471)
December 31	\$2,589	\$2,727
Net charge-offs to average loans (for the year ended)	.26%	.19%
Allowance for loan and lease losses to total loans	1.23	1.32
Commercial lending net charge-offs	\$ (185)	\$ (15)
Consumer lending net charge-offs	(358)	(371)
Total net charge-offs	\$ (543)	\$ (386)
Net charge-offs to average loans (for the year ended)		
Commercial lending	.14%	.01%
Consumer lending	.50	.50

At December 31, 2016, total ALLL to total nonperforming loans was 121%. The comparable amount for December 31, 2015 was 128%. These ratios are 89% and 98%, respectively, when excluding the \$.7 billion and \$.6 billion of ALLL at December 31, 2016 and December 31, 2015, respectively, allocated to consumer loans and lines of credit not secured by residential real estate and purchased impaired loans. We have excluded from these ratios purchased impaired loans consumer loans and consumer lines of credit not secured by real estate that are excluded from nonperforming loans. See Table 15 within this Credit Risk Management section for additional information.

The ALLL balance increases or decreases across periods in relation to fluctuating risk factors, including asset quality trends, net charge-offs and changes in aggregate portfolio balances. During 2016, overall credit quality remained relatively stable despite negative impacts from certain energy related loans, which resulted in an ALLL balance decline of \$138 million, or 5.1% to \$2.6 billion as of December 31, 2016 compared to December 31, 2015.

See Note 1 Accounting Policies and Note 4 Allowances for Loan and Lease Losses in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information on the ALLL.

The following table summarizes our loan charge-offs and recoveries.

Table 22: Loan Charge-Offs and Recoveries

Year ended December 31 Dollars in millions	Gross Charge-offs	Recoveries	Net Charge-offs / (Recoveries)	Percent of Average Loans
2016				
Commercial	\$ 332	\$ 117	\$ 215	.21%
Commercial real estate	26	51	(25)	(.09)%
Equipment lease financing	5	10	(5)	(.07)%
Home equity	143	84	59	.19%
Residential real estate	14	9	5	.03%
Credit card	161	19	142	2.90%
Other consumer	205	53	152	.70%
Total	\$ 886	\$ 343	\$ 543	.26%
2015				
Commercial	\$ 206	\$ 170	\$ 36	.04%
Commercial real estate	44	66	(22)	(.09)%
Equipment lease financing	5	4	1	.01%
Home equity	181	93	88	.26%
Residential real estate	24	13	11	.08%
Credit card	160	21	139	3.06%
Other consumer	185	52	133	.60%
Total	\$ 805	\$ 419	\$ 386	.19%

See Note 1 Accounting Policies in the Notes To Consolidated Financial Statements in Item 8 of this Report regarding changes in the ALLL.

Residential Mortgage Repurchase Obligations

As discussed in Note 2 Loan Sale and Servicing Activities and Variable Interest Entities in the Notes To Consolidated Financial Statements in Item 8 of this Report, we have sold residential mortgage loans directly or indirectly through securitization and loan sale transactions in which we have continuing involvement. One form of continuing involvement includes certain loan repurchase obligations associated with the transferred assets.

Table of Contents

While residential mortgage loans are sold on a non-recourse basis, we assume certain loan repurchase obligations associated with mortgage loans we have sold to investors. These loan repurchase obligations primarily relate to situations where we are alleged to have breached certain origination covenants and representations and warranties made to purchasers of the loans in the respective purchase and sale agreements. Our historical exposure and activity associated with Agency securitization repurchase obligations has primarily been related to transactions with FNMA and FHLMC, as indemnification and repurchase losses associated with FHA and VA-insured and uninsured loans pooled in GNMA securitizations historically have been minimal. In addition to indemnification and repurchase risk, we face other risks of loss with respect to our participation in these programs, some of which are described in Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report with respect to governmental inquiries related to FHA-insured loans. Repurchase obligation activity associated with residential mortgages is reported in the Residential Mortgage Banking segment.

Origination and sale of residential mortgages is an ongoing business activity and, accordingly, management continually assesses the need to recognize indemnification and repurchase liabilities pursuant to the associated investor sale agreements. We establish indemnification and repurchase liabilities for estimated losses on sold mortgages for which indemnification is expected to be provided or for loans that are expected to be repurchased. To estimate the mortgage repurchase liability arising from breaches of representations and warranties, we consider the following factors: (i) borrower performance in our historically sold portfolio (both actual and estimated future defaults); (ii) the level of outstanding unresolved repurchase claims; (iii) estimated probable future repurchase claims, considering information about expected investor behaviors, delinquent and liquidated loans, resolved and unresolved mortgage insurance rescission notices and our historical experience with claim rescissions; (iv) the potential ability to cure the defects identified in the repurchase claims ("rescission rate"); (v) the availability of legal defenses; and (vi) the estimated severity of loss upon repurchase of the loan or collateral, make-whole settlement or indemnification.

Our repurchase obligations involve Agency securitizations and other loan sales with FNMA and FHLMC subsequent to 2008, as well as Agency securitizations with GNMA and Non-Agency securitizations and other loan sales with private investors. The unpaid principal balance of loans associated with our exposure to repurchase obligations totaled \$60.5 billion at December 31, 2016, of which \$.9 billion was 90 days or more delinquent. The comparative amounts were \$65.3 billion and \$1.2 billion, respectively, at December 31, 2015. At December 31, 2016 and December 31, 2015, the residential mortgage indemnification and repurchase liability for estimated losses on indemnification and repurchase claims totaled \$66 million and \$94 million, respectively, and was included in Other liabilities on the Consolidated Balance Sheet.

Liquidity and Capital Management

Liquidity Risk

Liquidity risk has two fundamental components. The first is potential loss assuming we were unable to meet our funding requirements at a reasonable cost. The second is the potential inability to operate our businesses because adequate contingent liquidity is not available. We manage liquidity risk at the consolidated company level (bank, parent company, and nonbank subsidiaries combined) to help ensure that we can obtain cost-effective funding to meet current and future obligations under both normal "business as usual" and stressful circumstances, and to help ensure that we maintain an appropriate level of contingent liquidity.

Management monitors liquidity through a series of early warning indicators that may indicate a potential market, or PNC-specific, liquidity stress event. In addition, management performs a set of liquidity stress tests over multiple time horizons with varying levels of severity and maintains a contingency funding plan to address a potential stress event. In the most severe liquidity stress simulation, we assume that our liquidity position is under pressure, while the market in general is under systemic pressure. The simulation considers, among other things, the impact of restricted access to both secured and unsecured external sources of funding, accelerated run-off of customer deposits, valuation pressure on assets and heavy demand to fund committed obligations. Parent company liquidity guidelines are designed to help ensure that sufficient liquidity is available to meet our parent company obligations over the succeeding 24-month period. Liquidity-related risk limits are established within our Enterprise Liquidity Management Policy and supporting policies. Management committees, including the Asset and Liability Committee, and the Board of Directors and its Risk Committee regularly review compliance with key established limits.

In addition to these liquidity monitoring measures and tools described above, we also monitor our liquidity by reference to the LCR, a regulatory minimum liquidity requirement designed to ensure that covered banking organizations maintain an adequate level of liquidity to meet net liquidity needs over the course of a 30-day stress scenario. The LCR is calculated by dividing the amount of an institution's high quality, unencumbered liquid assets (HQLA), as defined and calculated in accordance with the LCR rules, by its estimated net cash outflows, with net cash outflows determined by applying the assumed outflow factors in the LCR rules. The resulting quotient is expressed as a percentage. The minimum LCR that PNC and PNC Bank were required to maintain was 90% in 2016 and the minimum increased to 100% in 2017. PNC and PNC Bank calculate the LCR on a daily basis and as of December 31, 2016, the LCR for PNC and PNC Bank exceeded the 2017 fully phased-in requirement of 100%.

Table of Contents

We provide additional information regarding regulatory liquidity requirements and their potential impact on us in the Supervision and Regulation section of Item 1 Business and Item 1A Risk Factors of this Report.

Sources of Funding

Our largest source of liquidity on a consolidated basis is the customer deposit base generated by our retail and commercial banking businesses. These deposits provide relatively stable and low-cost funding. Total deposits increased to \$257.2 billion at December 31, 2016 from \$249.0 billion at December 31, 2015, driven by growth in demand and savings deposits, which reflected in part a shift from money market deposits, partially offset by a decline in time deposits. Certain assets determined by us to be liquid and unused borrowing capacity from a number of sources are also available to maintain our liquidity position.

At December 31, 2016, our liquid assets consisted of short-term investments (Federal funds sold, resale agreements, trading securities and interest-earning deposits with banks) totaling \$29.6 billion and securities available for sale totaling \$60.1 billion. The level of liquid assets fluctuates over time based on many factors, including market conditions, loan and deposit growth and balance sheet management activities. Of our total liquid assets of \$89.7 billion, we had \$4.5 billion of securities available for sale and trading securities pledged as collateral to secure public and trust deposits, repurchase agreements and for other purposes. In addition, \$5.0 billion of securities held to maturity were also pledged as collateral for these purposes.

We also obtain liquidity through the issuance of traditional forms of funding, including long-term debt (senior notes, subordinated debt and FHLB advances) and short-term borrowings (Federal funds purchased, securities sold under repurchase agreements, commercial paper and other short-term borrowings).

Under PNC Bank's 2014 bank note program, as amended, PNC Bank may from time to time offer up to \$40.0 billion aggregate principal amount outstanding at any one time of its unsecured senior and subordinated notes with maturity dates more than nine months (in the case of senior notes) and five years or more (in the case of subordinated notes) from their date of issue. At December 31, 2016, PNC Bank had \$24.8 billion of notes outstanding under this program of which \$19.1 billion were senior bank notes and \$5.7 billion were subordinated bank notes. The following table details issuances for the three months ended December 31, 2016:

Table 23: PNC Bank Notes Issued During Fourth Quarter 2016

Issuance Date	Amount	Description of Issuance
December 9, 2016	\$600 million	Senior notes with a maturity date of December 7, 2018. Interest is payable semi-annually at a fixed rate of 1.700% on June 7 and December 7 of each year, beginning June 7, 2017.
December 9, 2016	\$750 million	Senior notes with a maturity date of December 9, 2021. Interest is payable semi-annually at a fixed rate of 2.550% on June 9 and December 9 of each year, beginning June 9, 2017.
December 9, 2016	\$400 million	Floating rate senior notes with a maturity date of December 7, 2018. Interest is payable at the 3-month LIBOR rate, reset quarterly, plus a spread of .40% per annum on March 7, June 7, September 7 and December 7 of each year, beginning on March 7, 2017.

See Note 23 Subsequent Events for information on the February 17, 2017 issuance of 2.625% Senior Notes due February 17, 2022 in the principal amount of \$1.0 billion by PNC Bank.

Total senior and subordinated debt, on a consolidated basis, increased due to the following activity:

Table 24: Senior and Subordinated Debt

In billions	2016
January 1	\$29.9
Issuances	5.6
Calls and maturities	(4.2)
Other	(0.3)
December 31	\$31.0

Table of Contents

PNC Bank is a member of the FHLB-Pittsburgh and, as such, has access to advances from FHLB-Pittsburgh secured generally by residential mortgage loans, other mortgage-related loans and commercial mortgage-backed securities. At December 31, 2016, our unused secured borrowing capacity was \$27.5 billion with the FHLB-Pittsburgh. Total FHLB borrowings decreased to \$17.5 billion at December 31, 2016 compared with \$20.1 billion at December 31, 2015 as maturities outpaced draws.

The FHLB-Pittsburgh also periodically provides standby letters of credit on behalf of PNC Bank to secure certain public deposits. If the FHLB-Pittsburgh is required to make payment for a beneficiary's draw, the payment amount is converted into a collateralized advance to PNC Bank. At December 31, 2016, standby letters of credit issued on our behalf by the FHLB-Pittsburgh totaled \$4.4 billion.

PNC Bank has the ability to offer up to \$10.0 billion of its commercial paper to provide additional liquidity. As of December 31, 2016, there were no issuances outstanding under this program.

PNC Bank can also borrow from the Federal Reserve Bank discount window to meet short-term liquidity requirements. The Federal Reserve Bank, however, is not viewed as a primary means of funding our routine business activities, but rather as a potential source of liquidity in a stressed environment or during a market disruption. These potential borrowings are secured by commercial loans. At December 31, 2016, our unused secured borrowing capacity was \$17.5 billion with the Federal Reserve Bank.

Borrowed funds come from a diverse mix of short-term and long-term funding sources. See Note 10 Borrowed Funds and the Funding sources section of the Consolidated Balance Sheet Review for additional information related to our Borrowings.

In addition to managing liquidity risk at the consolidated company level, we monitor the parent company's liquidity. The parent company's contractual obligations consist primarily of debt service related to parent company borrowings and funding non-bank affiliates. Additionally, the parent company maintains adequate liquidity to fund discretionary activities such as paying dividends to our shareholders, share repurchases, and acquisitions.

As of December 31, 2016, available parent company liquidity totaled \$4.5 billion. Parent company liquidity is primarily held in intercompany short-term investments, the terms of which provide for the availability of cash in 31 days or less. Investments with longer durations may also be acquired, but if so, the related maturities are aligned with scheduled cash needs, such as the maturity of parent company debt obligations.

The principal source of parent company liquidity is the dividends it receives from its subsidiary bank, which may be impacted by the following:

- Bank-level capital needs,
- Laws and regulations,
- Corporate policies,
- Contractual restrictions, and
- Other factors.

There are statutory and regulatory limitations on the ability of a national bank to pay dividends or make other capital distributions or to extend credit to the parent company or its non-bank subsidiaries. The amount available for dividend payments by PNC Bank to the parent company without prior regulatory approval was approximately \$1.7 billion at December 31, 2016. See Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report for a further discussion of these limitations. We provide additional information on certain contractual restrictions in Note 15 Equity in the Notes To Consolidated Financial Statements in Item 8 of this Report.

In addition to dividends from PNC Bank, other sources of parent company liquidity include cash and investments, as well as dividends and loan repayments from other subsidiaries and dividends or distributions from equity investments. We can also generate liquidity for the parent company and PNC's non-bank subsidiaries through the issuance of debt and equity securities, including certain capital instruments, in public or private markets and commercial paper. The parent company has the ability to offer up to \$5.0 billion of commercial paper to provide additional liquidity. As of December 31, 2016, there were no commercial paper issuances outstanding. The parent company has an effective shelf registration statement pursuant to which we can issue additional debt, equity and other capital instruments.

See Note 23 Subsequent Events for information on the February 7, 2017 issuance of \$575 million Floating Rate Senior Notes due August 7, 2018 off of the shelf registration statement.

Total parent company borrowings outstanding totaled \$6.2 billion at December 31, 2016 compared with \$7.5 billion at December 31, 2015. The decline was primarily attributable to maturities of \$1.2 billion during the year. As of December 31, 2016, there were approximately \$601 million of parent company borrowings with contractual maturities of less than one year.

Table of Contents

Commitments

The following tables set forth contractual obligations and various other commitments as of December 31, 2016 representing required and potential cash outflows.

Table 25: Contractual Obligations

December 31, 2016 – in millions	Total	Payment Due By Period			
		Less than one year	One to three years	Four to five years	After five years
Remaining contractual maturities of time deposits	\$17,560	\$12,200	\$ 1,413	\$ 1,908	\$ 2,039
Borrowed funds (a)	52,706	14,381	22,516	6,806	9,003
Minimum annual rentals on noncancellable leases	2,532	381	657	459	1,035
Nonqualified pension and postretirement benefits	506	56	112	104	234
Purchase obligations (b)	1,029	394	397	170	68
Total contractual cash obligations	\$74,333	\$27,412	\$25,095	\$ 9,447	\$12,379

(a) Includes basis adjustment relating to accounting hedges.

(b) Includes purchase obligations for goods and services covered by noncancellable contracts and contracts including cancellation fees.

At December 31, 2016, we had unrecognized tax benefits of \$22 million, which represents a reserve for tax positions that we have taken in our tax returns which ultimately may not be sustained upon examination by taxing authorities. Since the ultimate amount and timing of any future cash settlements cannot be predicted with reasonable certainty, this estimate has been excluded from the contractual obligations table. See Note 17 Income Taxes in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information.

Our contractual obligations totaled \$79.1 billion at December 31, 2015. The decrease in the comparison is primarily attributable to declines in borrowed funds and time deposits. See Funding Sources in the Consolidated Balance Sheet Review section of this Item 7 for additional information regarding our funding sources.

Table 26: Other Commitments (a)

December 31, 2016 – in millions	Total Amounts Committed	Amount Of Commitment Expiration By Period			
		Less than one year	One to three years	Four to five years	After five years
Commitments to extend credit (b)	\$151,981	\$ 57,413	\$55,045	\$38,617	\$ 906
Net outstanding standby letters of credit (c)	8,324	4,327	2,943	1,021	33
Reinsurance agreements (d)	1,835	4	24	17	1,790
Standby bond purchase agreements	790	541	225	24	
Other commitments (e)	967	564	334	44	25
Total commitments	\$163,897	\$ 62,849	\$58,571	\$39,723	\$ 2,754

(a) Other commitments are funding commitments that could potentially require performance in the event of demands by third parties or contingent events. Loan commitments are reported net of syndications, assignments and participations.

(b) Commitments to extend credit, or net unfunded loan commitments, represent arrangements to lend funds or provide liquidity subject to specified contractual conditions.

(c) Includes \$3.9 billion of standby letters of credit that support remarketing programs for customers' variable rate demand notes.

(d) Reinsurance agreements are with third-party insurers related to insurance sold to or placed on behalf of our customers. Balances represent estimates based on availability of financial information.

(e) Includes other commitments of \$215 million that were not on our Consolidated Balance Sheet. The remaining \$752 million of other commitments were included in Other liabilities on our Consolidated Balance Sheet.

Table of Contents

Our total commitments were \$155.1 billion at December 31, 2015. The increase in the comparison is primarily attributable to an increase in commitments to extend credit, partially offset by declines in net outstanding standby letters of credit.

Credit Ratings

PNC's credit ratings affect the cost and availability of short- and long-term funding, collateral requirements for certain derivative instruments, and the ability to offer certain products.

In general, rating agencies base their ratings on many quantitative and qualitative factors, including capital adequacy, liquidity, asset quality, business mix, level and quality of earnings, and the current legislative and regulatory environment, including implied government support. In addition, rating agencies themselves have been subject to scrutiny arising from the most recent financial crisis and could make or be required to make substantial changes to their ratings policies and practices, particularly in response to legislative and regulatory changes. Potential changes in the legislative and regulatory environment and the timing of those changes could impact our ratings, which as noted above, could impact our liquidity and financial condition. A decrease, or potential decrease, in credit ratings could impact access to the capital markets and/or increase the cost of debt, and thereby adversely affect liquidity and financial condition.

Table 27: Credit Ratings as of December 31, 2016 for PNC and PNC Bank

	Moody's	Standard & Poor's	Fitch
PNC			
Senior debt	A3	A-	A+
Subordinated debt	A3	BBB+	A
Preferred stock	Baa2	BBB-	BBB-
PNC Bank			
Senior debt	A2	A	A+
Subordinated debt	A3	A-	A
Long-term deposits	Aa2	A	AA-
Short-term deposits	P-1	A-1	F+
Short-term notes	P-1	A-1	F1

Capital Management

We manage our funding and capital positions by making adjustments to our balance sheet size and composition, issuing or redeeming debt, issuing equity or other capital instruments, executing treasury stock transactions and capital redemptions, and managing dividend policies and retaining earnings.

For the full year 2016, we returned \$3.1 billion of capital to shareholders. Repurchases totaled 22.8 million common shares for \$2.0 billion and dividends on common shares were \$1.1 billion.

We repurchase shares of PNC common stock under share repurchase authorization provided by our Board of Directors

in the amount of up to 100 million shares and consistent with capital plans submitted to, and accepted by, the Federal Reserve. Repurchases are made on the open market or in privately negotiated transactions and the extent and timing of share repurchases under authorizations depend on a number of factors including, among others, market and general economic conditions, economic and regulatory capital considerations, alternative uses of capital, the potential impact on our credit ratings, contractual and regulatory limitations, and the results of supervisory assessments of capital adequacy and capital planning processes undertaken by the Federal Reserve as part of the CCAR and DFAST processes.

For the five quarter period ended June 30, 2016, we repurchased 29.9 million shares of PNC common stock for \$2.7 billion, which was consistent with the 2015 capital plan accepted by the Federal Reserve as part of our 2015 CCAR submission. Of the total repurchased, 12.0 million shares for \$1.0 billion occurred in the first two quarters of 2016.

In connection with the 2016 CCAR process, the Federal Reserve accepted our capital plan, as approved by our Board of Directors, and did not object to our proposed capital actions in April 2016. As provided for in the 2016 capital plan, we announced new share repurchase programs of up to \$2.0 billion for the four quarter period beginning in the third quarter of 2016, including repurchases of up to \$200 million related to employee benefit plans. We repurchased 10.8 million common shares for \$1.0 billion during the third and fourth quarters of 2016 under these share repurchase programs.

In January 2017, we announced a \$300 million increase in our share repurchase programs for the four quarter period ended June 30, 2017.

The quarterly cash dividend on common stock was increased to 55 cents from 51 cents effective with the August 5, 2016 dividend payment date.

On November 1, 2016 we issued 525,000 depositary shares, each representing a 1/100th interest in a share of our Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series S, in an underwritten public offering resulting in gross proceeds of \$525 million to us before commissions and expenses. We issued 5,250 shares of Series S Preferred Stock to the depositary in this transaction. See Note 15 Equity in the Notes to Consolidated Financial Statements in Item 8 of this Report for more information on the terms of the securities.

See the Supervision and Regulation section of Item 1 Business in this Report for further information concerning the CCAR process and the factors the Federal Reserve takes into consideration in its evaluation of capital plans.

See Note 23 Subsequent Events for discussion of our February 2017 announcement of our March 2017 redemption of the Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities of PNC Preferred Funding Trust I and PNC Preferred Funding Trust II.

Table 28: Basel III Capital

	December 31, 2016	
	2016 Transitional Basel III (a)	Pro forma Fully Phased-In Basel III (Non-GAAP) (estimated) (b)(c)
Dollars in millions		
Common equity Tier 1 capital		
Common stock plus related surplus, net of treasury stock	\$ 10,317	\$ 10,317
Retained earnings	31,670	31,670
Accumulated other comprehensive income for securities currently and previously held as available for sale	94	157
Accumulated other comprehensive income for pension and other postretirement plans	(332)	(553)
Goodwill, net of associated deferred tax liabilities	(8,826)	(8,826)
Other disallowed intangibles, net of deferred tax liabilities	(148)	(247)
Other adjustments/(deductions)	(214)	(221)
Total common equity Tier 1 capital before threshold deductions	32,561	32,297
Total threshold deductions	(762)	(1,469)
Common equity Tier 1 capital	31,799	30,828
Additional Tier 1 capital		
Preferred stock plus related surplus	3,976	3,976
Noncontrolling interests (d)	418	45
Other adjustments/(deductions)	(92)	(113)
Tier 1 capital	36,101	34,736
Additional Tier 2 capital		
Qualifying subordinated debt	3,899	3,749
Trust preferred capital securities	119	—
Allowance for loan and lease losses included in Tier 2 capital	2,891	2,891
Other (d)	6	10
Total Basel III capital	\$ 43,016	\$ 41,386
Risk-weighted assets		
Basel III standardized approach risk-weighted assets (e)	\$300,533	\$ 308,517
Basel III advanced approaches risk-weighted assets (f)	N/A	\$ 277,896
Average quarterly adjusted total assets	\$355,838	\$ 355,003
Supplementary leverage exposure (g)	\$421,732	\$ 420,897
Basel III risk-based capital and leverage ratios		
Common equity Tier 1	10.6%	10.0% (h)(i)
Tier 1	12.0%	11.3% (h)(j)
Total	14.3%	13.4% (h)(k)
Leverage (l)	10.1%	9.8%
Supplementary leverage ratio (m)	8.6%	8.3%

(a) Calculated using the regulatory capital methodology applicable to us during 2016.

(b) PNC utilizes the pro forma fully phased-in Basel III capital ratios to assess its capital position (without the benefit of phase-ins), as these ratios represent the regulatory capital standards that will ultimately be applicable to PNC under the final Basel III rules. Pro forma fully phased-in capital amounts, ratios and risk-weighted and leverage-related assets are estimates.

(c) Basel III capital ratios and estimates may be impacted by additional regulatory guidance or analysis and, in the case of those ratios calculated using the advanced approaches, may be subject to variability based on the ongoing evolution, validation and regulatory approval of PNC's models integral to the calculation of advanced approaches risk-weighted assets.

(d) Primarily includes REIT Preferred Securities for transitional and pro forma fully phased-in.

(e) Includes credit and market risk-weighted assets.

(f) Basel III advanced approaches risk-weighted assets are estimated based on the Basel III advanced approaches rules, and include credit, market, and operational risk-weighted assets. During the parallel run qualification phase, PNC has refined the data, models, and internal processes used as part of the advanced approaches for determining risk-weighted assets. We anticipate additional refinements to this estimate through the parallel run qualification phase.

(g) Supplementary leverage exposure is the sum of Adjusted average assets and certain off-balance sheet exposures including undrawn credit commitments and derivative potential future exposures.

(h) Pro forma fully phased-in Basel III capital ratio based on Basel III standardized approach risk-weighted assets and rules.

(i) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Common equity Tier 1 capital ratio estimate is 11.1%. This capital ratio is calculated using pro forma fully phased-in Common equity Tier 1 capital and dividing by estimated Basel III advanced approaches risk-weighted assets.

(j) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Tier 1 risk-based capital ratio estimate is 12.5%. This capital ratio is calculated using fully phased-in Tier 1 capital and dividing by estimated Basel III advanced approaches risk-weighted assets.

(k) For comparative purposes only, the pro forma fully phased-in advanced approaches Basel III Total capital risk-based capital ratio estimate is 13.9%. This ratio is calculated using fully phased-in Total Basel III capital, which under the advanced approaches, Additional Tier 2 capital includes allowance for loan and lease losses in excess of Basel expected credit losses, if any, up to 0.6% of credit risk related risk-weighted assets, and dividing by estimated Basel III advanced approach risk-weighted assets.

(l) Leverage ratio is calculated based on Tier 1 capital divided by Average quarterly adjusted total assets.

(m) Supplementary leverage ratio is calculated based on Tier 1 capital divided by Supplementary leverage exposure. As advanced approaches banking organizations, PNC and PNC Bank will be subject to a 3% minimum supplementary leverage ratio effective January 1, 2018.

Table of Contents

As a result of the phase-in periods included in the final U.S. Basel III regulatory capital rules (Basel III rules), as well as the fact that we remain in the parallel run qualification phase for the advanced approaches, our regulatory risk-based capital ratios in 2016 were based on the definitions of, and deductions from, regulatory capital under the Basel III rules (as such definitions and deductions were phased-in for 2016) and the standardized approach for determining risk-weighted assets. Until we have exited parallel run, our regulatory risk-based Basel III ratios will be calculated using the standardized approach for determining risk-weighted assets, and the definitions of, and deductions from, capital under Basel III (as such definitions and deductions are phased-in through 2019). Once we exit parallel run, our regulatory risk-based capital ratios will be the lower of the ratios calculated under the standardized approach and the advanced approaches. We refer to the capital ratios calculated using the phased-in Basel III provisions in effect for 2016 and, for the risk-based ratios, standardized approach risk-weighted assets, as the 2016 Transitional Basel III ratios. Under the standardized approach for determining credit risk-weighted assets, exposures are generally assigned a pre-defined risk weight. Exposures to high volatility commercial real estate, past due exposures, equity exposures and securitization exposures are generally subject to higher risk weights than other types of exposures.

Under the Basel III rules adopted by the U.S. banking agencies, significant common stock investments in unconsolidated financial institutions, mortgage servicing rights and deferred tax assets must be deducted from capital (subject to a phase-in schedule and net of associated deferred tax liabilities) to the extent they individually exceed 10%, or in the aggregate exceed 15%, of the institution's adjusted common equity Tier 1 capital. Also, Basel III regulatory capital includes (subject to a phase-in schedule) accumulated other comprehensive income related to securities currently and previously held as available for sale, as well as pension and other postretirement plans.

Federal banking regulators have stated that they expect the largest U.S. bank holding companies, including PNC, to have a level of regulatory capital well in excess of the regulatory minimum and have required the largest U.S. bank holding companies, including PNC, to have a capital buffer sufficient to withstand losses and allow them to meet the credit needs of their customers through estimated stress scenarios. We seek to manage our capital consistent with these regulatory principles, and believe that our December 31, 2016 capital levels were aligned with them.

At December 31, 2016, PNC and PNC Bank, our sole bank subsidiary, were both considered "well capitalized," based on applicable U.S. regulatory capital ratio requirements. To qualify as "well capitalized", PNC must have Transitional Basel III capital ratios of at least 6% for Tier 1 risk-based capital and 10% for Total risk-based capital, and PNC Bank

must have Transitional Basel III capital ratios of at least 6.5% for Common equity Tier 1 risk-based capital, 8% for Tier 1 risk-based capital, 10% for Total risk-based capital and a Leverage ratio of at least 5%.

We provide additional information regarding regulatory capital requirements and some of their potential impacts on us in the Supervision and Regulation section of Item 1 Business, Item 1A Risk Factors and Note 18 Regulatory Matters in the Notes To Consolidated Financial Statements in Item 8 of this Report. See the Statistical Information (Unaudited) section of this Report for details on our December 31, 2015 Transitional Basel III and Pro forma fully phased-in Basel III common equity tier 1 capital ratios.

Market Risk Management

Market risk is the risk of a loss in earnings or economic value due to adverse movements in market factors such as interest rates, credit spreads, foreign exchange rates, commodity prices and equity prices. We are exposed to market risk primarily by our involvement in the following activities, among others:

- Traditional banking activities of gathering deposits and extending loans,
- Equity and other investments and activities whose economic values are directly impacted by market factors, and
- Fixed income securities, derivatives and foreign exchange activities, as a result of customer activities and securities underwriting.

We have established enterprise-wide policies and methodologies to identify, measure, monitor and report market risk. Market Risk Management provides independent oversight by monitoring compliance with established guidelines, and reporting significant risks in the business to the Risk Committee of the Board of Directors.

Market Risk Management – Interest Rate Risk

Interest rate risk results primarily from our traditional banking activities of gathering deposits and extending loans. Many factors, including economic and financial conditions, movements in interest rates and consumer preferences, affect the difference between the interest that we earn on assets and the interest that we pay on liabilities and the level of our noninterest-bearing funding sources. Due to the repricing term mismatches and embedded options inherent in certain of these products, changes in market interest rates not only affect expected near-term earnings, but also the economic values of these assets and liabilities.

Asset and Liability Management centrally manages interest rate risk as prescribed in our risk management policies, which are approved by management's Asset and Liability Committee and the Risk Committee of the Board of Directors.

Table of Contents

Sensitivity results and market interest rate benchmarks for the fourth quarters of 2016 and 2015 follow:

Table 29: Interest Sensitivity Analysis

	Fourth Quarter 2016	Fourth Quarter 2015
Net Interest Income Sensitivity Simulation (a)		
Effect on net interest income in first year from gradual interest rate change over the following 12 months of:		
100 basis point increase	2.6%	2.4%
100 basis point decrease	(4.2)%	(1.9)%
Effect on net interest income in second year from gradual interest rate change over the preceding 12 months of:		
100 basis point increase	4.7%	5.3%
100 basis point decrease	(8.3)%	(5.3)%
Duration of Equity Model (a)		
Base case duration of equity (in years)	(2.5)	(4.1)
Key Period-End Interest Rates		
One-month LIBOR	.77%	.43%
Three-year swap	1.69%	1.42%

(a) Given the inherent limitations in certain of these measurement tools and techniques, results become less meaningful as interest rates approach zero.

In addition to measuring the effect on net interest income assuming parallel changes in current interest rates, we routinely simulate the effects of a number of nonparallel interest rate environments. Table 30 reflects the percentage change in net interest income over the next two 12-month periods assuming (i) the PNC Economist's most likely rate forecast, (ii) implied market forward rates and (iii) yield curve slope flattening (a 100 basis point yield curve slope flattening between 1-month and ten-year rates superimposed on current base rates) scenario.

Table 30: Net Interest Income Sensitivity to Alternative Rate Scenarios (Fourth Quarter 2016)

	PNC Economist	Market Forward	Slope Flattening
First year sensitivity	1.5%	2.1%	(2.4)%
Second year sensitivity	5.1%	3.4%	(6.9)%

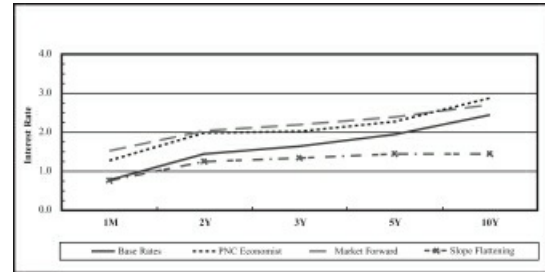
All changes in forecasted net interest income are relative to results in a base rate scenario where current market rates are assumed to remain unchanged over the forecast horizon.

When forecasting net interest income, we make assumptions about interest rates and the shape of the yield curve, the volume and characteristics of new business and the behavior of existing on- and off-balance sheet positions. These assumptions determine the future level of simulated net interest income in the base interest rate scenario and the other

interest rate scenarios presented in Tables 29 and 30 above. These simulations assume that as assets and liabilities mature, they are replaced or repriced at then current market rates.

The following graph presents the LIBOR/Swap yield curves for the base rate scenario and each of the alternate scenarios one year forward.

Table 31: Alternate Interest Rate Scenarios: One Year Forward



The fourth quarter 2016 interest sensitivity analyses indicate that our Consolidated Balance Sheet is positioned to benefit from an increase in interest rates and an upward sloping interest rate yield curve. We believe that we have the deposit funding base and balance sheet flexibility to adjust, where appropriate and permissible, to changing interest rates and market conditions.

Market Risk Management – Customer-Related Trading Risk

We engage in fixed income securities, derivatives and foreign exchange transactions to support our customers' investing and hedging activities. These transactions, related hedges and the credit valuation adjustment (CVA) related to our customer derivatives portfolio are marked-to-market daily and reported as customer-related trading activities. We do not engage in proprietary trading of these products.

We use value-at-risk (VaR) as the primary means to measure and monitor market risk in customer-related trading activities. VaR is used to estimate the probability of portfolio losses based on the statistical analysis of historical market risk factors. A diversified VaR reflects empirical correlations across different asset classes. We calculate a diversified VaR at a 95% confidence interval and the results for 2016 and 2015 were within our acceptable limits.

To help ensure the integrity of the models used to calculate VaR for each portfolio and enterprise-wide, we use a process known as backtesting. The backtesting process consists of comparing actual observations of gains or losses against the VaR levels that were calculated at the close of the prior day. Our VaR measure assumes that exposures remain constant and that recent market variability is a good predictor of future variability. Actual observations include customer related revenue and intraday hedging which helps to reduce losses and can reduce the number of instances actual losses

Table of Contents

exceed the prior day VaR measure. There were two and seven instances during 2016 and 2015, respectively under our diversified VaR measure where actual losses exceeded the prior day VaR measure and those losses were insignificant. Our portfolio and enterprise-wide VaR models utilize a historical approach with a 500 day look back period.

Customer-related trading revenue was \$203 million for full year 2016 compared with \$210 million for full year 2015 and is recorded in Other noninterest income and Other interest income on our Consolidated Income Statement. The decrease was mainly due to market interest rate changes impacting valuations for customer-related derivatives, partially offset by higher derivative and fixed income client sales.

Market Risk Management – Equity And Other Investment Risk

Equity investment risk is the risk of potential losses associated with investing in both private and public equity markets. In addition to extending credit, taking deposits, securities underwriting and trading financial instruments, we make and manage direct investments in a variety of transactions, including management buyouts, recapitalizations and growth financings in a variety of industries. We also have investments in affiliated and non-affiliated funds that make similar investments in private equity and in debt and equity-oriented hedge funds. The economic and/or book value of these investments and other assets such as loan servicing rights are directly affected by changes in market factors.

Various of our business units manage our equity and other investment activities. Our businesses are responsible for making investment decisions within the approved policy limits and associated guidelines.

A summary of our equity investments follows:

Table 32: Equity Investments Summary

In millions	December 31 2016	December 31 2015	Change	
			\$	%
BlackRock	\$ 6,886	\$ 6,626	\$ 260	4%
Tax credit investments	2,090	2,254	(164)	(7)%
Private equity and other	1,752	1,707	45	3%
Total	\$ 10,728	\$ 10,587	\$ 141	1%

BlackRock

We owned approximately 35 million common stock equivalent shares of BlackRock equity at December 31, 2016, accounted for under the equity method. The primary risk measurement, similar to other equity investments, is economic capital. The Business Segments Review section of this Item 7 includes additional information about BlackRock.

Tax Credit Investments

Included in our equity investments are direct tax credit investments and equity investments held by consolidated

entities. These tax credit investment balances included unfunded commitments totaling \$.7 billion at both December 31, 2016 and December 31, 2015. These unfunded commitments are included in Other Liabilities on our Consolidated Balance Sheet.

Note 2 Loan Sale and Servicing Activities and Variable Interest Entities in the Notes To Consolidated Financial Statements in Item 8 of this Report has further information on Tax Credit Investments.

Private Equity and Other

The majority of our other equity investments consists of our private equity portfolio. The private equity portfolio is an illiquid portfolio consisted of mezzanine and equity investments that vary by industry, stage and type of investment. Private equity investments carried at estimated fair value totaled \$1.4 billion at both December 31, 2016 and December 31, 2015. As of December 31, 2016, \$1.1 billion was invested directly in a variety of companies and \$.3 billion was invested indirectly through various private equity funds. See Item 1 Business – Supervision and Regulation and Item 1A Risk Factors of this Report for discussion of the potential impacts of the Volcker Rule provisions of Dodd-Frank on our interests in and of private funds covered by the Volcker Rule.

Included in our other equity investments are Visa Class B common shares, which are recorded at cost. At December 31, 2016, the fair value of our investment in Visa Class B common shares was approximately \$452 million and our cost basis was not significant. Visa Class B common shares that we own are transferable only under limited circumstances until they can be converted into shares of the publicly traded class of stock, which cannot happen until the settlement of the pending interchange litigation. Please see Note 6 Fair Value and Note 19 Legal Proceedings in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information regarding our Visa agreements.

We also have certain other equity investments, the majority of which represent investments in affiliated and non-affiliated funds with both traditional and alternative investment strategies. Net gains related to these investments were not significant during 2016 and 2015.

Impact of Inflation

Our assets and liabilities are primarily financial in nature and typically have varying maturity dates. Accordingly, future changes in prices do not affect the obligations to pay or receive fixed and determinable amounts of money. However, during periods of inflation, there may be a subsequent impact affecting certain fixed costs or expenses, an erosion of consumer and customer purchasing power, and fluctuations in the need or demand for our products and services. Should significant levels of inflation occur, our business could potentially be impacted by, among other things, reducing our tolerance for extending credit or causing us to incur additional credit losses resulting from possible increased default rates.

Table of Contents

Financial Derivatives

We use a variety of financial derivatives as part of the overall asset and liability risk management process to help manage exposure to market and credit risk inherent in our business activities. Substantially all such instruments are used to manage risk related to changes in interest rates. Interest rate swaps, interest rate caps and floors, swaptions, options, forwards and futures contracts are the primary instruments we use for interest rate risk management. We also enter into derivatives with customers to facilitate their risk management activities.

Financial derivatives involve, to varying degrees, market and credit risk. Periodic cash payments are exchanged for interest rate swaps, options and future contracts. Premiums are also exchanged for options contracts. Therefore, cash requirements and exposure to credit risk are significantly less than the notional amount on these instruments.

Further information on our financial derivatives is presented in Note 1 Accounting Policies, Note 6 Fair Value and Note 13 Financial Derivatives in the Notes To Consolidated Financial Statements in Item 8 of this Report, which is incorporated here by reference.

Not all elements of market and credit risk are addressed through the use of financial derivatives, and such instruments may be ineffective for their intended purposes due to unanticipated market changes, among other reasons.

Operational Risk Management

Operational risk is the risk to the current or projected financial condition and resilience arising from inadequate or failed internal processes or systems, human errors or misconduct, or adverse external events. Operational risk is inherent to the entire organization.

Operational risk management is embedded in our culture and decision-making processes through a systematic approach whereby operational risks and exposures are: 1) identified and assessed; 2) managed through the design and implementation of controls; 3) measured and evaluated against our risk tolerance limits; and 4) appropriately reported to management and the Risk Committee. Strong operational risk management and well-informed risk-based decisions benefit us by improving the customer experience, enhancing compliance, reducing reputational risk, minimizing losses, and establishing an appropriate amount of required operational risk capital held by the bank.

The Operational Risk Management Framework supports our effective and consistent management of operational risk. The primary purpose of the framework is to enable us to understand our operational risks and manage them to the desired risk profile, in line with our Risk Appetite.

Additionally, the guidance established within the framework enables management to make well-informed risk-based business decisions.

The framework provides a disciplined and structured process for us to manage operational risk across eight operational risk domains. These domains provide a comprehensive view of operational risk and allow us to discuss operational risk in a standard way, facilitating reporting and ongoing risk mitigation.

The operational risk domains are:

- **Operations:** Risk resulting from inadequate or failed internal processes, misconduct or errors of people or fraud.
- **Compliance:** Risk of legal or regulatory sanctions, financial loss, or damage to reputation resulting from failure to comply with laws, regulations, rules, self-regulatory standards, or other regulatory requirements.
- **Data Management:** Risk associated with incomplete or inaccurate data.
- **Model:** Risk associated with the design, implementation, and ongoing use and management of a model.
- **Technology and Systems:** Risk associated with the use, operation, and adoption of technology.
- **Information Security:** Risk resulting from the failure to protect information and ensure appropriate access to, and use and handling of information assets.
- **Business Continuity:** Risk of potential disruptive events to business activities.
- **Third Party:** Risk arising from failure of third party providers to conduct activity in a safe and sound manner and in compliance with contract provisions and applicable laws and regulations.

We utilize operational risk management programs within the framework, including RCSAs, scenario analysis, and internal and external loss event review and analysis, to assess existing risks, determine potential/emerging risks and evaluate the effectiveness of internal controls. The program tools and methodology enable our business managers to identify potential risks and control gaps.

Lines of business are responsible for identifying, owning, managing, and monitoring the operational risks and controls associated with its business activities and product or service offerings to within acceptable levels. Centralized functions, such as Business Continuity, Enterprise Third Party Management, and Information Security, are responsible for the development, implementation and management of their individual programs and for the development and maintenance of the policies, procedures, methodologies, tools, and technology utilized across the enterprise to identify, assess, monitor, and report program risks. Additionally, independent risk management reviews and challenges line of business adherence to the framework to ensure proper controls are in place and appropriate risk mitigation plans are established as necessary.

Compliance Risk

Enterprise Compliance is responsible for coordinating the compliance risk component of our Operational Risk Management Framework. Compliance issues are identified and tracked through enterprise-wide monitoring and tracking programs. Key compliance risk issues are escalated through a comprehensive risk reporting process at both a business and enterprise level and incorporated, as appropriate, into the development and assessment of our operational risk profile. A risk committee, chaired by the Chief Compliance Officer, is responsible for oversight of compliance and fiduciary risk management programs across PNC. In order to help understand and proactively address emerging regulatory issues where appropriate, Enterprise Compliance communicates regularly with various regulators with supervisory or regulatory responsibilities with respect to us, our subsidiaries, or businesses and participates in forums focused on regulatory and compliance matters in the financial services industry.

CRITICAL ACCOUNTING ESTIMATES AND JUDGMENTS

Our consolidated financial statements are prepared by applying certain accounting policies. Note 1 Accounting Policies in the Notes To Consolidated Financial Statements in Item 8 of this Report describes the most significant accounting policies that we use. Certain of these policies require us to make estimates or economic assumptions that may vary under different assumptions or conditions and such variations may significantly affect our reported results and financial position for the period or in future periods.

Fair Value Measurements

We must use estimates, assumptions, and judgments when assets and liabilities are required to be recorded at, or adjusted to reflect, fair value. Assets and liabilities carried at fair value inherently result in a higher degree of financial statement volatility. Fair values and the information used to record valuation adjustments for certain assets and liabilities are based on either quoted market prices or are provided by independent third-party sources, including appraisers and valuation specialists, when available. When such third-party information is not available, we estimate fair value primarily by using cash flow and other financial modeling techniques. Changes in underlying factors, assumptions, or estimates in any of these areas could materially impact our future financial condition and results of operations.

We apply ASC 820 – Fair Value Measurements. This guidance defines fair value as the price that would be received to sell a financial asset or paid to transfer a financial liability in an orderly transaction between market participants at the measurement date. This guidance requires a three level hierarchy for disclosure of assets and liabilities recorded at fair value. The classification of assets and liabilities within the hierarchy is based on whether the inputs to the valuation methodology used in the measurement are observable or unobservable.

The following table summarizes the assets and liabilities measured at fair value on a recurring basis at December 31, 2016 and December 31, 2015, respectively, and the portions of such assets and liabilities that are classified within Level 3 of the valuation hierarchy. Level 3 assets and liabilities are those where the fair value is estimated using significant unobservable inputs.

Table 33: Fair Value Measurements – Summary

Dollars in millions	December 31, 2016		December 31, 2015	
	Total Fair Value	Level 3	Total Fair Value	Level 3
Total assets	\$74,608	\$8,830	\$68,804	\$8,606
Total assets at fair value as a percentage of consolidated assets	20%		19%	
Level 3 assets as a percentage of total assets at fair value	12%		13%	
Level 3 assets as a percentage of consolidated assets	2%		2%	
Total liabilities	\$ 4,818	\$ 433	\$ 4,892	\$ 495
Total liabilities at fair value as a percentage of consolidated liabilities	2%		2%	
Level 3 liabilities as a percentage of total liabilities at fair value	9%		10%	
Level 3 liabilities as a percentage of consolidated liabilities	<1%		<1%	

The majority of assets recorded at fair value are included in the securities available for sale portfolio. The majority of Level 3 assets represent non-agency residential mortgage-backed securities in the securities available for sale portfolio, equity investments and mortgage servicing rights. For further information on fair value, see Note 6 Fair Value in the Notes To the Consolidated Financial Statements in Item 8 of this Report.

Allowances for Loan and Lease Losses and Unfunded Loan Commitments and Letters of Credit

We maintain the ALLL and the Allowance for Unfunded Loan Commitments and Letters of Credit at levels that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolios and on these unfunded credit facilities as of the balance sheet date. Our determination of the allowances is based on periodic evaluations of the loan and lease portfolios and unfunded credit facilities and other relevant factors. These critical estimates include significant use of our own historical data and complex methods to interpret them. We have an ongoing process to evaluate and enhance the quality, quantity and timeliness of our data and interpretation methods used in the determination of these allowances. These evaluations are inherently subjective, as they require material estimates and may be susceptible to significant change, and include, among others:

- Probability of default (PD),
- Loss given default (LGD),
- Outstanding balance of the loan,
- Movement through delinquency stages,
- Amounts and timing of expected future cash flows,
- Value of collateral, which may be obtained from third parties, and
- Qualitative factors, such as changes in current economic conditions, that may not be reflected in modeled results.

For all loans, the ALLL is the sum of three components: (i) asset specific/individual impaired reserves, (ii) quantitative (formulaic or pooled) reserves and (iii) qualitative (judgmental) reserves. The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower, and economic conditions. For unfunded commitments, the reserve estimate also includes estimation of the probability of funding. Key reserve assumptions are periodically updated.

To the extent actual outcomes differ from our estimates, additional provision for credit losses may be required that would reduce future earnings. See the following for additional information:

- Allowances For Loan And Lease Losses And Unfunded Loan Commitments And Letters Of Credit in the Credit Risk Management section of this Item 7, and
- Note 1 Accounting Policies and Note 4 Allowances for Loan and Lease Losses in the Notes To Consolidated Financial Statements and Allocation of Allowance for Loan and Lease Losses in the Statistical Information (Unaudited) section of Item 8 of this Report.

Goodwill

Goodwill arising from business acquisitions represents the value attributable to unidentifiable intangible elements in the business acquired. Most of our goodwill relates to value inherent in the Retail Banking and Corporate & Institutional Banking businesses.

The value of goodwill is supported by earnings, which is driven by our invested assets and transaction volume and, for certain businesses, the market value of assets under administration or for which processing services are provided. Lower earnings and realized profitability resulting from a lack of growth or our inability to deliver cost-effective services over sustained periods can lead to impairment of goodwill, which could result in a current period charge to earnings. At least annually, in the fourth quarter, or more frequently if events occur or circumstances have changed significantly from the annual test date, management reviews the current operating environment and strategic direction of each reporting unit taking into consideration any events or changes in circumstances that may have an effect on the unit. For this review, inputs are generated and used in calculating the fair value of the reporting unit, which is compared to its carrying amount ("Step 1" of the goodwill impairment test) as further discussed below. The fair values of our reporting units are determined using a discounted cash flow valuation model with assumptions based upon market comparables. Additionally, we may also evaluate certain financial metrics that are indicative of fair value, including market quotes, price to earnings ratios and recent acquisitions involving other financial institutions. A reporting unit is defined as an operating segment or one level below an operating segment. If the fair value of the reporting unit is less than its carrying amount, the reporting unit's goodwill would be evaluated for impairment. In this circumstance, the implied fair value of reporting unit goodwill, which is determined as if the reporting unit had been acquired in a business combination, would be compared to the carrying amount of that goodwill ("Step 2" of the goodwill impairment test). If the carrying amount of goodwill exceeds the implied fair value of goodwill, the difference is recognized as an impairment loss.

The results of our annual 2016 impairment test indicated that the estimated fair values of our reporting units with goodwill exceeded their carrying values by at least 10% and are not considered to be at risk of not passing Step 1. By definition, assumptions utilized in estimating the fair value of a reporting unit are judgmental and inherently uncertain, but absent a significant change in economic conditions of a reporting unit, we would not expect the fair values of these reporting units to decrease below their respective carrying values. Similarly, there were no impairment charges related to goodwill in 2015 or 2014.

See Note 7 Goodwill and Mortgage Servicing Rights in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information.

Residential and Commercial Mortgage Servicing Rights

We elect to measure our residential and commercial mortgage servicing rights (MSRs) at fair value. This election was made to be consistent with our risk management strategy to hedge changes in the fair value of these assets. The fair value of residential and commercial MSRs is estimated by using a cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other economic factors which are determined based on current market conditions.

We employ risk management strategies designed to protect the value of MSRs from changes in interest rates and related market factors. The values of the residential and commercial MSRs are economically hedged with securities and derivatives, including interest-rate swaps, options, and forward mortgage-backed and futures contracts. As interest rates change, these financial instruments are expected to have changes in fair value negatively correlated to the change in fair value of the hedged MSR portfolios. The hedge relationships are actively managed in response to changing market conditions over the life of the MSRs. Selecting appropriate financial instruments to economically hedge residential or commercial MSRs requires significant management judgment to assess how mortgage rates and prepayment speeds could affect the future values of MSRs. Hedging results can frequently be less predictable in the short term, but over longer periods of time are expected to protect the economic value of the MSRs.

The following sections of this Report provide further information on residential and commercial MSRs:

- Note 6 Fair Value included in the Notes To Consolidated Financial Statements in Item 8 of this Report.
- Note 7 Goodwill and Mortgage Servicing Rights included in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Income Taxes

In the normal course of business, we and our subsidiaries enter into transactions for which the tax treatment is unclear or subject to varying interpretations. In addition, filing requirements, methods of filing and the calculation of taxable income in various state and local jurisdictions are subject to differing interpretations.

We evaluate and assess the relative risks and merits of the tax treatment of transactions, filing positions, filing methods and taxable income calculations after considering statutes, regulations, judicial precedent, and other information, and maintain tax accruals consistent with our evaluation of these relative risks and merits. The result of our evaluation and

assessment is by its nature an estimate. We and our subsidiaries are routinely subject to audit and challenges from taxing authorities. In the event we resolve a challenge for an amount different than amounts previously accrued, we will account for the difference in the period in which we resolve the matter.

Recently Issued Accounting Standards

Revenue Recognition

In May 2014, the Financial Accounting Standard Board (FASB) issued Accounting Standards Update (ASU) 2014-09, Revenue from Contracts with Customers (Topic 606). This ASU clarifies the principles for recognizing revenue and replaces nearly all existing revenue recognition guidance in U.S. GAAP with one accounting model. The core principle of the guidance is that an entity should recognize revenue to depict the satisfaction of a performance obligation by transfer of promised goods or services to customers. The ASU also requires additional qualitative and quantitative disclosures relating to the nature, amount, timing, and uncertainty of revenue and cash flows arising from contracts with customers.

In August 2015, the FASB issued guidance deferring the mandatory effective date of ASU 2014-09 for one year, to annual reporting periods beginning after December 15, 2017. During 2016, the FASB also issued four separate ASUs which amend the original standard to clarify guidance regarding principal versus agent considerations, identifying performance obligations and licensing, certain narrow-scope amendments which address the presentation of sales tax, noncash consideration, contract modifications at transition and assessing collectability and other minor technical corrections and improvements.

The requirements within ASU 2014-09 and its subsequent amendments should be applied retrospectively to each prior period presented (with several practical expedients for certain completed contracts) or retrospectively with the cumulative effect of initially applying ASU 2014-09 recognized at the date of initial application (i.e., modified retrospective application). We plan to adopt the ASU consistent with the deferred mandatory effective date using the modified retrospective approach. Based on our evaluation to date, we do not expect the adoption of this standard to have a significant impact on our consolidated results of operations or our consolidated financial position. We expect that the most significant impact related to the standard's expanded disclosure requirements will be the disaggregation of revenue.

Financial Instruments

In January 2016, the FASB issued ASU2016-01, Financial Instruments – Overall (Subtopic 825-10): *Recognition and Measurement of Financial Assets and Financial Liabilities*. This ASU changes the accounting for certain equity investments, financial liabilities under the fair value option and presentation and disclosure requirements for financial

instruments. Equity investments not accounted for under the equity method of accounting will be measured at fair value with any changes in fair value recognized in net income. The ASU also simplifies the impairment assessment of equity investments for which fair value is not readily determinable. Additionally, the ASU changes the presentation of certain fair value changes for financial liabilities measured at fair value, and amends certain disclosure requirements relating to the fair value of financial instruments. The ASU is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2017 and should be applied using a modified retrospective approach through a cumulative-effect adjustment to the balance sheet, except for the amendment related to equity securities without readily determinable fair values, which should be applied prospectively. We plan to adopt all provisions consistent with the effective date and are currently evaluating the impact of this ASU on our results of operations and financial position. However, we expect the standard will most significantly impact equity investments that are currently accounted for under the cost method which will likely have a positive impact on income when transitioned to fair value measurement.

Leases

In February 2016, the FASB issued ASU2016-02, Leases (Topic 842). The primary change in the new guidance is the recognition of lease assets and lease liabilities by lessees for operating leases. The ASU requires lessees to recognize a right-of-use asset and related lease liability for all leases with lease terms of more than 12 months. The recognition, measurement and presentation of expenses and cash flows arising from a lease by a lessee will depend on its classification as a finance or operating lease. The ASU is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2018 using a modified retrospective approach through a cumulative-effect adjustment. Early adoption is permitted. We are currently evaluating the impact of adopting this standard.

Credit Losses

In June 2016, the FASB issued ASU2016-13, Financial Instruments – Credit Losses (Topic 326): *Measurement of Credit Losses on Financial Instruments*. The ASU requires the use of an expected credit loss methodology; specifically, expected credit losses for the remaining life of the asset will be recognized at the time of origination or acquisition. The expected credit loss methodology will apply to loans, debt securities, and other financial assets and net investment in leases not accounted for at fair value through net income. It will also apply to off-balance sheet credit exposures except for unconditionally cancellable commitments. Assets in the scope of the ASU, except for purchased credit deteriorated assets, will be presented at the net amount expected to be collected after deducting the allowance for credit losses from the amortized cost basis of the assets.

Enhanced credit quality disclosures will be required including disaggregation of credit quality indicators by vintage. The development of an expected credit loss methodology and new disclosures will require significant data collection, building or enhancing loss models, and process re-development prior to adoption. The ASU is effective for us for the first quarter of 2020 using a modified retrospective approach through a cumulative-effect adjustment to retained earnings as of the beginning of the year of adoption. We have established a company-wide, cross-functional governance structure. We have also begun assessing the required changes to our credit loss estimation methodologies and systems, as well as additional data and resource requirements to be able to comply with the standard. We continue to assess the impact of the standard; however, we expect the guidance will result in an increase in the allowance for loan losses to cover credit losses over the estimated life of the financial assets. The magnitude of the increase in our allowance for loan losses at the adoption date will be dependent upon the nature of the characteristics of the portfolio at the adoption date, as well as macroeconomic conditions and forecasts at that date.

Statement of Cash Flows

In August 2016, the FASB issued ASU2016-15, Statement of Cash Flows (Topic 230): *Classification of Certain Cash Receipts and Cash Payments*. The ASU provides guidance on eight specific issues related to classification within the statement of cash flows with the objective of reducing existing diversity in practice. The specific issues cover cash payments for debt prepayment or debt extinguishment costs; cash outflows for settlement of zero-coupon debt instruments or other debt instruments with coupon interest rates that are insignificant; contingent consideration payments that are not made soon after a business combination; proceeds from the settlement of insurance claims; proceeds from the settlement of corporate-owned life insurance policies, including bank-owned life insurance policies; distributions received from equity method investees; beneficial interests received in securitization transactions; and clarifies that when no specific GAAP guidance exists and the source of the cash flows are not separately identifiable, then the predominant source of cash flows should be used to determine the classification for the item. The ASU is effective for annual periods, and interim periods within those annual periods, beginning after December 15, 2017. Early adoption is permitted, provided that all of the amendments are adopted in the same period. The guidance requires application using a retrospective transition method. We are currently evaluating the impact of adopting this standard.

Recently Adopted Accounting Pronouncements

See Note 1 Accounting Policies in the Notes To the Consolidated Financial Statements in Item 8 of this Report regarding the impact of new accounting pronouncements which we have adopted.

OFF-BALANCE SHEET ARRANGEMENTS AND VARIABLE INTEREST ENTITIES

We engage in a variety of activities that involve entities that are not consolidated or otherwise reflected in our Consolidated Balance Sheet that are generally referred to as “off-balance sheet arrangements.” Additional information on these types of activities is included in the following sections of this Report:

- Commitments, including contractual obligations and other commitments, included within the Risk Management section of this Item 7, and
- Note 2 Loan Sale and Servicing Activities and Variable Interest Entities,
- Note 10 Borrowed Funds,
- Note 15 Equity, and
- Note 20 Commitments, all of which are in the Notes To Consolidated Financial Statements included in Item 8 of this Report.

We consolidate variable interest entities (VIEs) when we are deemed to be the primary beneficiary. The primary beneficiary of a VIE is determined to be the party that meets both of the following criteria: (i) has the power to make decisions that most significantly affect the economic performance of the VIE; and (ii) has the obligation to absorb losses or the right to receive benefits that in either case could potentially be significant to the VIE.

A summary of VIEs, including those that we have consolidated and those in which we hold variable interests but have not consolidated into our financial statements, as of December 31, 2016 and December 31, 2015 is included in Note 2 in the Notes To Consolidated Financial Statements included in Item 8 of this Report.

Trust Preferred Securities and REIT Preferred Securities

See Note 10 Borrowed Funds, Note 15 Equity and Note 23 Subsequent Events in the Notes To Consolidated Financial Statements in Item 8 of this Report for additional information on trust preferred securities issued by PNC Capital Trust C and REIT preferred securities issued by PNC Preferred Funding Trust I and PNC Preferred Funding Trust II including information on contractual limitations potentially imposed on payments (including dividends) with respect to PNC and PNC Bank’s equity capital securities.

GLOSSARY OF TERMS

Adjusted average total assets – Primarily consisted of total average quarterly (or annual) assets plus/less unrealized losses (gains) on investment securities, less goodwill and certain other intangible assets (net of eligible deferred taxes).

Basel III common equity Tier 1 capital – Common stock plus related surplus, net of treasury stock, plus retained earnings, plus accumulated other comprehensive income for securities currently and previously held as available for sale, plus accumulated other comprehensive income for pension and other postretirement benefit plans, less goodwill, net of associated deferred tax liabilities, less other disallowed intangibles, net of deferred tax liabilities and plus/less other adjustments.

Basel III common equity Tier 1 capital ratio – Common equity Tier 1 capital divided by period-end risk-weighted assets (as applicable).

Basel III Tier 1 capital – Common equity Tier 1 capital plus preferred stock, plus certain trust preferred capital securities, plus certain noncontrolling interests that are held by others and plus/less other adjustments.

Basel III Tier 1 capital ratio – Tier 1 capital divided by period-end risk-weighted assets (as applicable).

Basel III Total capital – Tier 1 capital plus qualifying subordinated debt, plus certain trust preferred securities, plus, under the Basel III transitional rules and the standardized approach, the allowance for loan and lease losses included in Tier 2 capital and other.

Basel III Total capital ratio – Total capital divided by period-end risk-weighted assets (as applicable).

Charge-off – Process of removing a loan or portion of a loan from our balance sheet because it is considered uncollectible. We also record a charge-off when a loan is transferred from portfolio holdings to held for sale by reducing the loan carrying amount to the fair value of the loan, if fair value is less than carrying amount.

Combined loan-to-value ratio (CLTV) – This is the aggregate principal balance(s) of the mortgages on a property divided by its appraised value or purchase price.

Common shareholders’ equity – Total shareholders’ equity less the liquidation value of preferred stock.

Credit valuation adjustment (CVA) – Represents an adjustment to the fair value of our derivatives for our own and counterparties’ non-performance risk.

Criticized commercial loans – Loans with potential or identified weaknesses based upon internal risk ratings that comply with the regulatory classification definitions of “Special Mention,” “Substandard” or “Doubtful.”

Discretionary client assets under management – Assets over which we have sole or shared investment authority for our customers/clients. We do not include these assets on our Consolidated Balance Sheet.

Table of Contents

Duration of equity – An estimate of the rate sensitivity of our economic value of equity. A negative duration of equity is associated with asset sensitivity (*i.e.*, positioned for rising interest rates), while a positive value implies liability sensitivity (*i.e.*, positioned for declining interest rates). For example, if the duration of equity is -1.5 years, the economic value of equity increases by 1.5% for each 100 basis point increase in interest rates.

Earning assets – Assets that generate income, which include: interest-earning deposits with banks; loans held for sale; loans; investment securities; and certain other assets.

Effective duration – A measurement, expressed in years, that, when multiplied by a change in interest rates, would approximate the percentage change in value of on- and off- balance sheet positions.

Efficiency – Noninterest expense divided by total revenue.

Fair value – The price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Fee income – When referring to the components of Noninterest income, we use the term fee income to refer to the following categories within Noninterest income: Asset management; Consumer services; Corporate services; Residential mortgage; and Service charges on deposits.

FICO score – A credit bureau-based industry standard score created by Fair Isaac Co. which predicts the likelihood of borrower default. We use FICO scores both in underwriting and assessing credit risk in our consumer lending portfolio. Lower FICO scores indicate likely higher risk of default, while higher FICO scores indicate likely lower risk of default. FICO scores are updated on a periodic basis.

Foreign exchange contracts – Contracts that provide for the future receipt and delivery of foreign currency at previously agreed-upon terms.

Futures and forward contracts – Contracts in which the buyer agrees to purchase and the seller agrees to deliver a specific financial instrument at a predetermined price or yield. May be settled either in cash or by delivery of the underlying financial instrument.

GAAP – Accounting principles generally accepted in the United States of America.

Home price index (HPI) – A broad measure of the movement of single-family house prices in the U.S.

Impaired loans – Loans are determined to be impaired when, based on current information and events, it is probable that all contractually required payments will not be collected.

Impaired loans include commercial nonperforming loans and consumer and commercial TDRs, regardless of nonperforming status. Excluded from impaired loans are nonperforming leases, loans held for sale, loans accounted for under the fair value option, smaller balance homogenous type loans and purchased impaired loans.

Interest rate swap contracts – Contracts that are entered into primarily as an asset/liability management strategy to reduce interest rate risk. Interest rate swap contracts are exchanges of interest rate payments, such as fixed-rate payments for floating-rate payments, based on notional principal amounts.

Intrinsic value – The difference between the price, if any, required to be paid for stock issued pursuant to an equity compensation arrangement and the fair market value of the underlying stock.

Leverage ratio – Tier 1 capital divided by average quarterly adjusted total assets.

LIBOR – Acronym for London InterBank Offered Rate. LIBOR is the average interest rate charged when banks in the London wholesale money market (or interbank market) borrow unsecured funds from each other. LIBOR rates are used as a benchmark for interest rates on a global basis. Our product set includes loans priced using LIBOR as a benchmark.

Loan-to-value ratio (LTV) – A calculation of a loan's collateral coverage that is used both in underwriting and assessing credit risk in our lending portfolio. LTV is the sum total of loan obligations secured by collateral divided by the market value of that same collateral. Market values of the collateral are based on an independent valuation of the collateral. For example, a LTV of less than 90% is better secured and has less credit risk than a LTV of greater than or equal to 90%.

Loss given default (LGD) – An estimate of loss, net of recovery based on collateral type, collateral value, loan exposure, and other factors. Each loan has its own LGD. The LGD risk rating measures the percentage of exposure of a specific credit obligation that we expect to lose if default occurs. LGD is net of recovery, through any means, including but not limited to the liquidation of collateral or deficiency judgments rendered from foreclosure or bankruptcy proceedings.

Nonaccrual loans – Loans for which we do not accrue interest income. Nonaccrual loans include nonperforming loans, in addition to loans accounted for under fair value option and loans accounted for as held for sale for which full collection of contractual principal and/or interest is not probable.

Nondiscretionary client assets under administration – Assets we hold for our customers/clients in a nondiscretionary, custodial capacity. We do not include these assets on our Consolidated Balance Sheet.

Table of Contents

Nonperforming assets – Nonperforming assets include nonperforming loans and OREO, foreclosed and other assets, but exclude certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest, loans held for sale, loans accounted for under the fair value option and purchased impaired loans. We do not accrue interest income on assets classified as nonperforming.

Nonperforming loans – Loans accounted for at amortized cost for which we do not accrue interest income. Nonperforming loans include loans to commercial, commercial real estate, equipment lease financing, home equity, residential real estate, credit card and other consumer customers as well as TDRs which have not returned to performing status. Nonperforming loans exclude certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest, loans held for sale, loans accounted for under the fair value option and purchased impaired loans. Nonperforming loans exclude purchased impaired loans as we are currently accreting interest income over the expected life of the loans.

Notional amount – A number of currency units, shares, or other units specified in a derivative contract.

Operating leverage – The period to period dollar or percentage change in total revenue (GAAP basis) less the dollar or percentage change in noninterest expense. A positive variance indicates that revenue growth exceeded expense growth (*i.e.*, positive operating leverage) while a negative variance implies expense growth exceeded revenue growth (*i.e.*, negative operating leverage).

Options – Contracts that grant the purchaser, for a premium payment, the right, but not the obligation, to either purchase or sell the associated financial instrument at a set price during a specified period or at a specified date in the future.

Other real estate owned (OREO), foreclosed and other assets – Assets taken in settlement of troubled loans primarily through deed-in-lieu of foreclosure or foreclosure. Foreclosed and other assets include real and personal property, equity interests in corporations, partnerships, and limited liability companies. Excludes certain assets that have a government guarantee which are classified as other receivables.

Probability of default (PD) – An internal risk rating that indicates the likelihood that a credit obligor will enter into default status.

Recovery – Cash proceeds received on a loan that we had previously charged off. We credit the amount received to the allowance for loan and lease losses.

Risk – The potential that an event or series of events could occur that would threaten our ability to achieve our strategic objectives, thereby negatively affecting shareholder value or reputation.

Risk appetite – A dynamic, forward-looking view on the aggregate amount of risk we are willing and able to take in executing business strategy in light of the current business environment.

Risk limits – Quantitative measures based on forward looking assumptions that allocate the firm's aggregate risk appetite (*e.g.* measure of loss or negative events) to business lines, legal entities, specific risk categories, concentrations and as appropriate, other levels.

Risk profile – The risk profile is a point-in-time assessment of risk. The profile represents overall risk position in relation to the desired risk appetite. The determination of the risk profile's position is based on qualitative and quantitative analysis of reported risk limits, metrics, operating guidelines and qualitative assessments.

Risk-weighted assets – Computed by the assignment of specific risk-weights (as defined by the Board of Governors of the Federal Reserve System) to assets and off-balance sheet instruments.

Servicing rights – An intangible asset or liability created by an obligation to service assets for others. Typical servicing rights include the right to receive a fee for collecting and forwarding payments on loans and related taxes and insurance premiums held in escrow.

Taxable-equivalent interest income – The interest income earned on certain assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of yields and margins for all interest-earning assets, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margins by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on other taxable investments. This adjustment is not permitted under GAAP on the Consolidated Income Statement.

Transitional Basel III common equity – Common equity calculated under Basel III using phased-in definitions and deductions applicable to us during the related presentation period.

Troubled debt restructuring (TDR) – A loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties.

Value-at-risk (VaR) – A statistically-based measure of risk that describes the amount of potential loss which may be incurred due to adverse market movements. The measure is of the maximum loss which should not be exceeded on 95 out of 100 days for a 95% VaR.

Yield curve – A graph showing the relationship between the yields on financial instruments or market indices of the same credit quality with different maturities. For example, a “normal” or “positive” yield curve exists when long-term bonds have higher yields than short-term bonds. A “flat” yield curve exists when yields are the same for short-term and long-term bonds. A “steep” yield curve exists when yields on long-term bonds are significantly higher than on short-term bonds. An “inverted” or “negative” yield curve exists when short-term bonds have higher yields than long-term bonds.

CAUTIONARY STATEMENT REGARDING FORWARD-LOOKING INFORMATION

We make statements in this Report, and we may from time to time make other statements, regarding our outlook for earnings, revenues, expenses, capital and liquidity levels and ratios, asset levels, asset quality, financial position, and other matters regarding or affecting us and our future business and operations that are forward-looking statements within the meaning of the Private Securities Litigation Reform Act. Forward-looking statements are typically identified by words such as “believe,” “plan,” “expect,” “anticipate,” “see,” “look,” “intend,” “outlook,” “project,” “forecast,” “estimate,” “goal,” “will,” “should” and other similar words and expressions. Forward-looking statements are subject to numerous assumptions, risks and uncertainties, which change over time.

Forward-looking statements speak only as of the date made. We do not assume any duty and do not undertake to update forward-looking statements. Actual results or future events could differ, possibly materially, from those anticipated in forward-looking statements, as well as from historical performance.

Our forward-looking statements are subject to the following principal risks and uncertainties.

- Our businesses, financial results and balance sheet values are affected by business and economic conditions, including the following:
 - Changes in interest rates and valuations in debt, equity and other financial markets.
 - Disruptions in the U.S. and global financial markets.
 - Actions by the Federal Reserve Board, U.S. Treasury and other government agencies, including those that impact money supply and market interest rates.
 - Changes in law and policy accompanying the new presidential administration and uncertainty or speculation pending the enactment of such changes.
 - Changes in customers’, suppliers’ and other counterparties’ performance and creditworthiness.
 - Slowing or reversal of the current U.S. economic expansion.
- Continued residual effects of recessionary conditions and uneven spread of positive impacts of recovery on the economy and our counterparties, including adverse impacts on levels of unemployment, loan utilization rates, delinquencies, defaults and counterparty ability to meet credit and other obligations.
- Commodity price volatility.
- Changes in customer preferences and behavior, whether due to changing business and economic conditions, legislative and regulatory initiatives, or other factors.
- Our forward-looking financial statements are subject to the risk that economic and financial market conditions will be substantially different than those we are currently expecting. These statements are based on our current view that the U.S. economy and the labor market will grow moderately in 2017, boosted by stable oil/energy prices, improving consumer spending and housing activity, and expanded federal fiscal policy stimulus as a result of the 2016 elections. Short-term interest rates and bond yields are expected to continue rising in 2017, along with inflation. These forward-looking statements also do not, unless otherwise indicated, take into account the impact of potential legal and regulatory contingencies.
- Our ability to take certain capital actions, including paying dividends and any plans to increase common stock dividends, repurchase common stock under current or future programs, or issue or redeem preferred stock or other regulatory capital instruments, is subject to the review of such proposed actions by the Federal Reserve Board as part of our comprehensive capital plan for the applicable period in connection with the Federal Reserve Board’s Comprehensive Capital Analysis and Review (CCAR) process and to the acceptance of such capital plan and non-objection to such capital actions by the Federal Reserve Board.
- Our regulatory capital ratios in the future will depend on, among other things, the company’s financial performance, the scope and terms of final capital regulations then in effect (particularly those implementing the international regulatory capital framework developed by the Basel Committee on Banking Supervision (Basel Committee), the international body responsible for developing global regulatory standards for banking organizations for consideration and adoption by national jurisdictions), and management actions affecting the composition of our balance sheet. In addition, our ability to determine, evaluate and forecast regulatory capital ratios, and to take actions (such as capital distributions) based on actual or forecasted capital ratios, will be dependent at least in part on the development, validation and regulatory approval of related models.
- Legal and regulatory developments could have an impact on our ability to operate our businesses, financial condition, results of operations, competitive position, reputation, or pursuit of attractive acquisition

Table of Contents

opportunities. Reputational impacts could affect matters such as business generation and retention, liquidity, funding, and ability to attract and retain management. These developments could include:

- Changes resulting from legislative and regulatory reforms, including changes affecting oversight of the financial services industry, consumer protection, tax, pension, bankruptcy and other industry aspects, and changes in accounting policies and principles.
- Changes to regulations governing bank capital and liquidity standards, including due to the Dodd-Frank Act and initiatives of the Basel Committee.
- Unfavorable resolution of legal proceedings or other claims and regulatory and other governmental investigations or other inquiries. These matters may result in monetary judgments or settlements or other remedies, including fines, penalties, restitution or alterations in our business practices, and in additional expenses and collateral costs, and may cause reputational harm to us.
- Results of the regulatory examination and supervision process, including our failure to satisfy requirements of agreements with governmental agencies.
- Impact on business and operating results of any costs associated with obtaining rights in intellectual property claimed by others and of adequacy of our intellectual property protection in general.
- Business and operating results are affected by our ability to identify and effectively manage risks inherent in our businesses, including, where appropriate, through effective use of systems and controls, third-party insurance, derivatives, and capital management techniques, and to meet evolving regulatory capital and liquidity standards.
- Business and operating results also include impacts relating to our equity interest in BlackRock, Inc. and rely to a significant extent on information provided to us by BlackRock. Risks and uncertainties that could affect BlackRock are discussed in more detail by BlackRock in its SEC filings.

- We grow our business in part by acquiring from time to time other financial services companies, financial services assets and related deposits and other liabilities. Acquisition risks and uncertainties include those presented by the nature of the business acquired, including in some cases those associated with our entry into new businesses or new geographic or other markets and risks resulting from our inexperience in those new areas, as well as risks and uncertainties related to the acquisition transactions themselves, regulatory issues, and the integration of the acquired businesses into PNC after closing.
- Competition can have an impact on customer acquisition, growth and retention and on credit spreads and product pricing, which can affect market share, deposits and revenues. Our ability to anticipate and respond to technological changes can also impact our ability to respond to customer needs and meet competitive demands.
- Business and operating results can also be affected by widespread natural and other disasters, pandemics, dislocations, terrorist activities, system failures, security breaches, cyberattacks or international hostilities through impacts on the economy and financial markets generally or on us or our counterparties specifically.

We provide greater detail regarding these as well as other factors in this Report, and elsewhere in this Report, including in the Risk Factors and Risk Management sections and the Legal Proceedings and Commitments Notes of the Notes To Consolidated Financial Statements in this Report. Our forward-looking statements may also be subject to other risks and uncertainties, including those discussed elsewhere in this Report or in our other filings with the SEC.

ITEM 7A – QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

This information is set forth in the Risk Management section of Item 7 and in Note 1 Accounting Policies, Note 6 Fair Value, and Note 13 Financial Derivatives in the Notes To Consolidated Financial Statements in Item 8 of this Report.

ITEM 8 – FINANCIAL STATEMENTS AND SUPPLEMENTARY DATA

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Shareholders of The PNC Financial Services Group, Inc.

In our opinion, the accompanying consolidated balance sheets and the related consolidated statements of income, of comprehensive income, of changes in equity, and of cash flows present fairly, in all material respects, the financial position of The PNC Financial Services Group, Inc. and its subsidiaries (the “Company”) at December 31, 2016 and December 31, 2015, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2016 in conformity with accounting principles generally accepted in the United States of America. Also in our opinion, the Company maintained, in all material respects, effective internal control over financial reporting as of December 31, 2016, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission (COSO). The Company’s management is responsible for these financial statements, for maintaining effective internal control over financial reporting and for its assessment of the effectiveness of internal control over financial reporting, included in Management’s Report on Internal Control over Financial Reporting under Item 9A. Our responsibility is to express opinions on these financial statements and on the Company’s internal control over financial reporting based on our integrated audits. We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audits to obtain reasonable assurance about whether the financial statements are free of material misstatement and whether effective internal control over financial reporting was maintained in all material respects. Our audits of the financial statements included examining, on a test basis, evidence supporting the amounts and disclosures in the financial

statements, assessing the accounting principles used and significant estimates made by management, and evaluating the overall financial statement presentation. Our audit of internal control over financial reporting included obtaining an understanding of internal control over financial reporting, assessing the risk that a material weakness exists, and testing and evaluating the design and operating effectiveness of internal control based on the assessed risk. Our audits also included performing such other procedures as we considered necessary in the circumstances. We believe that our audits provide a reasonable basis for our opinions.

A company’s internal control over financial reporting is a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles. A company’s internal control over financial reporting includes those policies and procedures that (i) pertain to the maintenance of records that, in reasonable detail, accurately and fairly reflect the transactions and dispositions of the assets of the company; (ii) provide reasonable assurance that transactions are recorded as necessary to permit preparation of financial statements in accordance with generally accepted accounting principles, and that receipts and expenditures of the company are being made only in accordance with authorizations of management and directors of the company; and (iii) provide reasonable assurance regarding prevention or timely detection of unauthorized acquisition, use, or disposition of the company’s assets that could have a material effect on the financial statements.

Because of its inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

/s/ PricewaterhouseCoopers LLP
Pittsburgh, Pennsylvania
February 28, 2017

CONSOLIDATED INCOME STATEMENT

THE PNC FINANCIAL SERVICES GROUP, INC.

In millions, except per share data	Year ended December 31		
	2016	2015	2014
Interest Income			
Loans	\$ 7,414	\$ 7,203	\$ 7,427
Investment securities	1,826	1,679	1,624
Other	412	441	380
Total interest income	9,652	9,323	9,431
Interest Expense			
Deposits	430	403	325
Borrowed funds	831	642	581
Total interest expense	1,261	1,045	906
Net interest income	8,391	8,278	8,525
Noninterest Income			
Asset management	1,521	1,567	1,513
Consumer services	1,388	1,335	1,254
Corporate services	1,504	1,491	1,415
Residential mortgage	567	566	618
Service charges on deposits	667	651	662
Other	1,124	1,337	1,388
Total noninterest income	6,771	6,947	6,850
Total revenue	15,162	15,225	15,375
Provision For Credit Losses	433	255	273
Noninterest Expense			
Personnel	4,841	4,831	4,611
Occupancy	861	842	833
Equipment	974	925	859
Marketing	247	249	253
Other	2,553	2,616	2,932
Total noninterest expense	9,476	9,463	9,488
Income before income taxes and noncontrolling interests	5,253	5,507	5,614
Income taxes	1,268	1,364	1,407
Net income	3,985	4,143	4,207
Less: Net income attributable to noncontrolling interests	82	37	23
Preferred stock dividends	209	220	232
Preferred stock discount accretion and redemptions	6	5	5
Net income attributable to common shareholders	\$ 3,688	\$ 3,881	\$ 3,947
Earnings Per Common Share			
Basic	\$ 7.42	\$ 7.52	\$ 7.44
Diluted	\$ 7.30	\$ 7.39	\$ 7.30
Average Common Shares Outstanding			
Basic	494	514	529
Diluted	500	521	537

See accompanying Notes To Consolidated Financial Statements.

[Table of Contents](#)

CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME

THE PNC FINANCIAL SERVICES GROUP, INC.

In millions	Year ended December 31		
	2016	2015	2014
Net income	\$3,985	\$4,143	\$4,207
Other comprehensive income (loss), before tax and net of reclassifications into Net income:			
Net unrealized gains (losses) on non-OTTI securities	(369)	(569)	375
Net unrealized gains (losses) on OTTI securities	63	(13)	79
Net unrealized gains (losses) on cash flow hedge derivatives	(153)	127	168
Pension and other postretirement benefit plan adjustments	1	(54)	(446)
Other	(59)	(42)	(39)
Other comprehensive income (loss), before tax and net of reclassifications into Net income	(517)	(551)	137
Income tax benefit (expense) related to items of other comprehensive income	122	178	(70)
Other comprehensive income (loss), after tax and net of reclassifications into Net income	(395)	(373)	67
Comprehensive income	3,590	3,770	4,274
Less: Comprehensive income attributable to noncontrolling interests	82	37	23
Comprehensive income attributable to PNC	\$3,508	\$3,733	\$4,251

See accompanying Notes To Consolidated Financial Statements.

[Table of Contents](#)

CONSOLIDATED BALANCE SHEET

THE PNC FINANCIAL SERVICES GROUP, INC.

	December 31 2016	December 31 2015
In millions, except par value		
Assets		
Cash and due from banks	\$ 4,879	\$ 4,065
Interest-earning deposits with banks	25,711	30,546
Loans held for sale (a)	2,504	1,540
Investment securities – available for sale	60,104	55,760
Investment securities – held to maturity	15,843	14,768
Loans (a)	210,833	206,696
Allowance for loan and lease losses	(2,589)	(2,727)
Net loans	208,244	203,969
Equity investments	10,728	10,587
Mortgage servicing rights	1,758	1,589
Goodwill	9,103	9,103
Other (a)	27,506	26,566
Total assets	\$ 366,380	\$ 358,493
Liabilities		
Deposits		
Noninterest-bearing	\$ 80,230	\$ 79,435
Interest-bearing	176,934	169,567
Total deposits	257,164	249,002
Borrowed funds		
Federal Home Loan Bank borrowings	17,549	20,108
Bank notes and senior debt	22,972	21,298
Subordinated debt	8,009	8,556
Other (b)	4,176	4,570
Total borrowed funds	52,706	54,532
Allowance for unfunded loan commitments and letters of credit	301	261
Accrued expenses and other liabilities	9,355	8,718
Total liabilities	319,526	312,513
Equity		
Preferred stock (c)		
Common stock (\$5 par value, Authorized 800 shares, issued 542 shares)	2,709	2,708
Capital surplus	16,651	16,197
Retained earnings	31,670	29,043
Accumulated other comprehensive income (loss)	(265)	130
Common stock held in treasury at cost: 57 and 38 shares	(5,066)	(3,368)
Total shareholders' equity	45,699	44,710
Noncontrolling interests	1,155	1,270
Total equity	46,854	45,980
Total liabilities and equity	\$ 366,380	\$ 358,493

(a) Our consolidated assets included the following for which we have elected the fair value option: Loans held for sale of \$2.4 billion, Loans of \$.9 billion, and Other assets of \$.5 billion at December 31, 2016 and Loans held for sale of \$1.5 billion, Loans of \$.9 billion, and Other assets of \$.7 billion at December 31, 2015.

(b) Our consolidated liabilities included Other borrowed funds of \$.1 billion at both December 31, 2016 and December 31, 2015, for which we have elected the fair value option.

(c) Par value less than \$.5 million at each date.

See accompanying Notes To Consolidated Financial Statements.

CONSOLIDATED STATEMENT OF CHANGES IN EQUITY

THE PNC FINANCIAL SERVICES GROUP, INC.

In millions	Shares Outstanding Common Stock	Shareholders' Equity						Noncontrolling Interests	Total Equity
		Common Stock	Capital Surplus - Preferred Stock	Capital Surplus - Common Stock and Other	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Stock		
Balance at January 1, 2014 (a)	533	\$2,698	\$3,941	\$12,416	\$23,253	\$ 436	\$ (408)	\$ 1,703	\$44,039
Net income					4,184			23	4,207
Other comprehensive income, net of tax						67			67
Cash dividends declared									
Common					(1,000)				(1,000)
Preferred					(232)				(232)
Preferred stock discount accretion			5		(5)				
Common stock activity	1	7		81					88
Treasury stock activity	(11)			14			(1,022)		(1,008)
Other				116				(203)	(87)
Balance at December 31, 2014 (a)	523	\$2,705	\$3,946	\$12,627	\$26,200	\$ 503	\$ (1,430)	\$ 1,523	\$46,074
Net income					4,106			37	4,143
Other comprehensive income (loss), net of tax						(373)			(373)
Cash dividends declared									
Common					(1,038)				(1,038)
Preferred					(219)				(219)
Preferred stock discount accretion			6		(6)				
Preferred stock redemption – Series K (b)			(500)						(500)
Common stock activity	1	3		46					49
Treasury stock activity	(20)			(56)			(1,938)		(1,994)
Other				128				(290)	(162)
Balance at December 31, 2015 (a)	504	\$2,708	\$3,452	\$12,745	\$29,043	\$ 130	\$ (3,368)	\$ 1,270	\$45,980
Net income					3,903			82	3,985
Other comprehensive income (loss), net of tax						(395)			(395)
Cash dividends declared									
Common					(1,061)				(1,061)
Preferred					(209)				(209)
Preferred stock discount accretion			6		(6)				
Preferred stock issuance – Series S (c)			519						519
Common stock activity		1		18					19
Treasury stock activity	(19)			(131)			(1,698)		(1,829)
Other				42				(197)	(155)
Balance at December 31, 2016 (a)	485	\$2,709	\$3,977	\$12,674	\$31,670	\$ (265)	\$ (5,066)	\$ 1,155	\$46,854

(a) The par value of our preferred stock outstanding was less than \$.5 million at each date and, therefore, is excluded from this presentation.

(b) On May 4, 2015, we redeemed all 50,000 shares of our Series K preferred stock, as well as all 500,000 Depositary Shares representing fractional interests in such shares, resulting in net outflow of \$500 million.

(c) On November 1, 2016, PNC issued 5,250 shares of Series S preferred stock with a \$1 par value.

See accompanying Notes To Consolidated Financial Statements.

[Table of Contents](#)

CONSOLIDATED STATEMENT OF CASH FLOWS

THE PNC FINANCIAL SERVICES GROUP, INC.

In millions	Year ended December 31		
	2016	2015	2014
Operating Activities			
Net income	\$ 3,985	\$ 4,143	\$ 4,207
Adjustments to reconcile net income to net cash provided (used) by operating activities			
Provision for credit losses	433	255	273
Depreciation and amortization	1,193	1,088	988
Deferred income taxes	326	404	255
Changes in fair value of mortgage servicing rights	179	274	514
Gain on sales of Visa Class B common shares	(126)	(169)	(209)
Undistributed earnings of BlackRock	(361)	(407)	(441)
Net change in			
Trading securities and other short-term investments	(1,167)	203	757
Loans held for sale	(935)	393	(405)
Other assets	(644)	1,568	(8)
Accrued expenses and other liabilities	652	(1,788)	169
Other	100	(439)	(515)
Net cash provided (used) by operating activities	3,635	5,525	5,585
Investing Activities			
Sales			
Securities available for sale	3,456	6,723	4,432
Loans	1,897	2,040	2,870
Repayments/maturities			
Securities available for sale	11,061	7,920	6,915
Securities held to maturity	3,209	2,032	1,987
Purchases			
Securities available for sale	(19,495)	(26,367)	(7,989)
Securities held to maturity	(4,305)	(4,896)	(500)
Loans	(1,334)	(748)	(750)
Net change in			
Federal funds sold and resale agreements	126	481	131
Interest-earning deposits with banks	4,835	1,233	(19,643)
Loans	(5,940)	(3,972)	(12,147)
Other	(952)	(706)	(199)
Net cash provided (used) by investing activities	(7,442)	(16,260)	(24,893)

(continued on following page)

[Table of Contents](#)

CONSOLIDATED STATEMENT OF CASH FLOWS

THE PNC FINANCIAL SERVICES GROUP, INC.

(continued from previous page)

In millions	Year ended December 31		
	2016	2015	2014
Financing Activities			
Net change in			
Noninterest-bearing deposits	\$ 1,212	\$ 5,765	\$ 3,182
Interest-bearing deposits	7,367	10,812	8,130
Federal funds purchased and repurchase agreements	18	(1,733)	(778)
Other borrowed funds	272	(9)	109
Sales/issuances			
Federal Home Loan Bank borrowings	1,000	2,250	15,685
Bank notes and senior debt	5,601	8,173	6,184
Subordinated debt			745
Commercial paper		1,394	8,797
Other borrowed funds	165	694	505
Preferred stock	519		
Common and treasury stock	151	139	252
Repayments/maturities			
Federal Home Loan Bank borrowings	(3,559)	(2,147)	(8,592)
Bank notes and senior debt	(3,750)	(2,624)	(3,089)
Subordinated debt	(488)	(524)	57
Commercial paper	(14)	(6,219)	(8,687)
Other borrowed funds	(541)	(1,622)	(467)
Preferred stock redemption		(500)	
Acquisition of treasury stock	(2,062)	(2,152)	(1,176)
Preferred stock cash dividends paid	(209)	(219)	(232)
Common stock cash dividends paid	(1,061)	(1,038)	(1,000)
Net cash provided (used) by financing activities	4,621	10,440	19,625
Net Increase (Decrease) In Cash And Due From Banks			
	814	(295)	317
Cash and due from banks at beginning of period	4,065	4,360	4,043
Cash and due from banks at end of period	\$ 4,879	\$ 4,065	\$ 4,360
Supplemental Disclosures			
Interest paid	\$ 1,317	\$ 1,005	\$ 863
Income taxes paid	\$ 658	\$ 919	\$ 1,102
Income taxes refunded	\$ 111	\$ 286	\$ 12
Non-cash Investing and Financing Items			
Transfer from loans to loans held for sale, net	\$ 606	\$ 285	\$ 724
Transfer from loans to foreclosed assets	\$ 281	\$ 435	\$ 604

See accompanying Notes To Consolidated Financial Statements.

NOTES TO CONSOLIDATED FINANCIAL STATEMENTS

THE PNC FINANCIAL SERVICES GROUP, INC.

BUSINESS

The PNC Financial Services Group, Inc. (PNC) is one of the largest diversified financial services companies in the United States and is headquartered in Pittsburgh, Pennsylvania.

We have businesses engaged in retail banking, corporate and institutional banking, asset management, and residential mortgage banking, providing many of our products and services nationally. Our primary geographic markets are located in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina. We also provide certain products and services internationally.

NOTE 1 ACCOUNTING POLICIES

Basis of Financial Statement Presentation

Our consolidated financial statements include the accounts of the parent company and its subsidiaries, most of which are wholly-owned, certain partnership interests, and variable interest entities.

We prepared these consolidated financial statements in accordance with accounting principles generally accepted in the United States of America (GAAP). We have eliminated intercompany accounts and transactions. We have also reclassified certain prior year amounts to conform to the 2016 presentation, which did not have a material impact on our consolidated financial condition or results of operations.

We have also considered the impact of subsequent events on these consolidated financial statements.

Use of Estimates

We prepared these consolidated financial statements using financial information available at the time of preparation, which requires us to make estimates and assumptions that affect the amounts reported. Our most significant estimates pertain to our fair value measurements and allowances for loan and lease losses and unfunded loan commitments and letters of credit. Actual results may differ from the estimates and the differences may be material to the consolidated financial statements.

Investment in BlackRock, Inc.

We account for our investment in the common stock and Series B Preferred Stock of BlackRock (deemed to be in-substance common stock) under the equity method of

accounting. The investment in BlackRock is reflected on our Consolidated Balance Sheet in Equity investments, while our equity in earnings of BlackRock is reported on our Consolidated Income Statement in Asset management revenue.

We also hold shares of Series C Preferred Stock of BlackRock pursuant to our obligation to partially fund a portion of certain BlackRock long-term incentive plan (LTIP) programs. Since these preferred shares are not deemed to be in-substance common stock, we have elected to account for these preferred shares at fair value and the changes in fair value will offset the impact of marking-to-market the obligation to deliver these shares to BlackRock. Our investment in the BlackRock Series C Preferred Stock is included on our Consolidated Balance Sheet in Other assets. Our obligation to transfer these shares to BlackRock is classified as a derivative not designated as a hedging instrument under GAAP as disclosed in Note 13 Financial Derivatives.

Special Purpose Entities

Special purpose entities (SPEs) are defined as legal entities structured for a particular purpose. We use special purpose entities in various legal forms to conduct normal business activities. We review the structure and activities of special purpose entities for possible consolidation under the applicable GAAP guidance.

A variable interest entity (VIE) is a corporation, partnership, limited liability company, or any other legal structure used to conduct activities or hold assets generally that either:

- Does not have equity investors with voting rights that can directly or indirectly make decisions about the entity's activities through those voting rights or similar rights, or
- Has equity investors that do not provide sufficient equity for the entity to finance its activities without additional subordinated financial support.

A VIE often holds financial assets, including loans or receivables, real estate or other property.

VIEs are assessed for consolidation under ASC 810 – Consolidation when we hold a variable interest in these entities. We consolidate a VIE if we are its primary beneficiary. The primary beneficiary of a VIE is determined to be the party that meets both of the following criteria: (i) has the power to make decisions that most significantly affect the economic performance of the VIE; and (ii) has the obligation to absorb losses or the right to receive benefits that in either case could potentially be significant to the VIE. Upon consolidation of a VIE, we recognize all of the VIE's assets,

Table of Contents

liabilities and noncontrolling interests on our Consolidated Balance Sheet. On a quarterly basis, we determine whether any changes occurred requiring a reassessment of whether we are the primary beneficiary of an entity.

See Note 2 Loan Sale and Servicing Activities and Variable Interest Entities for information about VIEs that we consolidate as well as those that we do not consolidate but in which we hold a significant variable interest.

Revenue Recognition

We earn interest and noninterest income from various sources, including:

- Lending,
- Securities portfolio,
- Asset management,
- Customer deposits,
- Loan sales and servicing,
- Brokerage services,
- Sale of loans and securities,
- Certain private equity activities, and
- Securities, derivatives and foreign exchange activities.

We earn fees and commissions from:

- Issuing loan commitments, standby letters of credit and financial guarantees,
- Selling various insurance products,
- Providing treasury management services,
- Providing merger and acquisition advisory and related services, and
- Participating in certain capital markets transactions.

Revenue earned on interest-earning assets, including unearned income and the amortization/accretion of premiums or discounts recognized on acquired loans and debt securities, is recognized based on the constant effective yield of the financial instrument or based on other applicable accounting guidance.

Our Asset management noninterest income includes asset management fees, which are generally based on a percentage of the fair value of the assets under management. Additionally, it includes our share of the earnings of BlackRock recognized under the equity method of accounting.

Service charges on deposit accounts are recognized when earned. Brokerage fees and gains and losses on the sale of securities and certain derivatives are recognized on a trade-date basis.

We record private equity income or loss based on changes in the valuation of the underlying investments or when we dispose of our interest.

We recognize gain/(loss) on changes in the fair value of certain financial instruments where we have elected the fair value option. These financial instruments include certain commercial and residential mortgage loans originated for sale, certain residential mortgage portfolio loans, resale agreements and our investment in BlackRock Series C preferred stock. We also recognize gain/(loss) on changes in the fair value of residential and commercial mortgage servicing rights (MSRs).

We recognize revenue from servicing residential mortgages, commercial mortgages and other consumer loans as earned based on the specific contractual terms. These revenues are reported on the Consolidated Income Statement in the line items Residential mortgage, Corporate services and Consumer services. We recognize revenue from securities, derivatives and foreign exchange customer-related trading, as well as securities underwriting activities, as these transactions occur or as services are provided. We generally recognize gains from the sale of loans upon receipt of cash. Mortgage revenue recognized is reported net of mortgage repurchase reserves.

Cash and Cash Equivalents

Cash and due from banks are considered “cash and cash equivalents” for financial reporting purposes.

Investments

We hold interests in various types of investments. The accounting for these investments is dependent on a number of factors including, but not limited to, items such as:

- Ownership interest,
- Our plans for the investment, and
- The nature of the investment.

Debt Securities

Debt securities are recorded on a trade-date basis. We classify debt securities as held to maturity and carry them at amortized cost if we have the positive intent and ability to hold the securities to maturity. Debt securities that we purchase for certain risk management activities or customer-related trading activities are carried at fair value and classified as trading securities and are reported in the Other assets line item on our Consolidated Balance Sheet. Realized and unrealized gains and losses on trading securities are included in Other noninterest income.

Debt securities not classified as held to maturity or trading are designated as securities available for sale and carried at fair value with unrealized gains and losses, net of income taxes, reflected in Accumulated other comprehensive income (loss).

Table of Contents

On at least a quarterly basis, we review all debt securities that are in an unrealized loss position for other than temporary impairment (OTTI). An investment security is deemed impaired if the fair value of the investment is less than its amortized cost. Amortized cost includes adjustments (if any) made to the cost basis of an investment for accretion, amortization, previous other-than-temporary impairments and hedging gains and losses. After an investment security is determined to be impaired, we evaluate whether the decline in value is other-than-temporary. Declines in the fair value of available for sale and held to maturity debt securities that are deemed other-than-temporary and are attributable to credit deterioration are recognized in Other noninterest income on our Consolidated Income Statement in the period in which the determination is made. Declines in fair value which are deemed other-than-temporary and attributable to factors other than credit deterioration are recognized in Accumulated other comprehensive income (loss) on our Consolidated Balance Sheet.

We include all interest on debt securities, including amortization of premiums and accretion of discounts on investment securities, in net interest income using the constant effective yield method calculated over the estimated lives of the securities taking into account anticipated prepayments. Effective yields reflect either the effective interest rate implicit in the security at the date of acquisition or the effective interest rate determined based on improved cash flows subsequent to impairment. We compute gains and losses realized on the sale of available for sale debt securities on a specific security basis. These securities gains/(losses) are included in Other noninterest income on the Consolidated Income Statement.

In certain situations, management may elect to transfer certain debt securities from the securities available for sale to the held to maturity classification. In such cases, the securities are reclassified at fair value at the time of transfer. Any unrealized gain or loss included in Accumulated other comprehensive income (loss) at the time of transfer is retained therein and amortized over the remaining life of the security as a yield adjustment, such that only the remaining initial discount/premium from the purchase date is recognized in income.

Equity Securities and Partnership Interests

We account for equity securities and equity investments other than BlackRock and private equity investments under one of the following methods:

- Marketable equity securities are recorded on a trade-date basis and are accounted for based on the securities' quoted market prices from a national securities exchange. Those purchased with the intention of selling in the near term are classified as trading and included in Other assets on our Consolidated Balance Sheet. Both realized and unrealized gains and losses on trading securities are included in Noninterest income. Marketable equity

securities not classified as trading are designated as securities available for sale with unrealized gains and losses, net of income taxes, reflected in Accumulated other comprehensive income (loss). Any unrealized losses that we have determined to be other-than-temporary on securities classified as available for sale are recognized in current period earnings.

- For investments in limited partnerships, limited liability companies and other investments that are not required to be consolidated, we use either the equity method or the cost method of accounting. We use the equity method for general and limited partner ownership interests and limited liability companies in which we are considered to have significant influence over the operations of the investee. Under the equity method, we record our equity ownership share of net income or loss of the investee in Noninterest income and any dividends received on equity method investments are recorded as a reduction to the investment balance. We use the cost method for all other investments. Under the cost method, there is no change to the cost basis unless there is an other-than-temporary decline in value or dividends received are considered a return on investment. If the decline is determined to be other-than-temporary, we write down the cost basis of the investment to a new cost basis that represents realizable value. The amount of the write-down is accounted for as a loss included in Noninterest income. Distributions received from the income of an investee on cost method investments are included in Noninterest income. Investments described above are included in Equity investments on our Consolidated Balance Sheet.

Private Equity Investments

We report private equity investments, which include direct investments in companies, affiliated partnership interests and indirect investments in private equity funds, at estimated fair value. These estimates are based on available information and may not necessarily represent amounts that we will ultimately realize through distribution, sale or liquidation of the investments. Fair values of publicly traded direct investments are determined using quoted market prices and are subject to various discount factors for lack of marketability, when appropriate. The valuation procedures applied to direct investments and indirect investments are detailed in Note 6 Fair Value. We include all private equity investments within Equity investments on our Consolidated Balance Sheet. Changes in fair value of private equity investments are recognized in Noninterest income.

We consolidate affiliated partnerships when we are the general partner and have determined that we have control of the partnership or are the primary beneficiary if the entity is a VIE. The portion we do not own is reflected in Noncontrolling interests on our Consolidated Balance Sheet.

Table of Contents

Loans

Loans are classified as held for investment when management has both the intent and ability to hold the loan for the foreseeable future, or until maturity or payoff. Management's intent and view of the foreseeable future may change based on changes in business strategies, the economic environment, market conditions and the availability of government programs.

Measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent.

Except as described below, loans held for investment are stated at the principal amounts outstanding, net of unearned income, unamortized deferred fees and costs on originated loans, and premiums or discounts on purchased loans. Interest on performing loans (excluding interest on purchased impaired loans, which is further discussed below) is accrued based on the principal amount outstanding and recorded in Interest income as earned using the constant effective yield method. Loan origination fees, direct loan origination costs, and loan premiums and discounts are deferred and accreted or amortized into Net interest income using the constant effective yield method, over the contractual life of the loan.

In addition to originating loans, we also acquire loans through portfolio purchases or acquisitions of other financial services companies. For certain acquired loans that have experienced a deterioration of credit quality, we follow the guidance contained in ASC 310-30 – Loans and Debt Securities Acquired with Deteriorated Credit Quality. Under this guidance, acquired purchased impaired loans are to be recorded at fair value without the carryover of any existing valuation allowances. When evidence of credit quality deterioration and evidence that it is probable that we will be unable to collect all contractual amounts due exist, we consider the loans to be purchased credit impaired and we estimate the amount and timing of undiscounted expected cash flows at acquisition for each loan either individually or on a pool basis. The excess of undiscounted cash flows expected to be collected on a purchased impaired loan (or pool of loans) over its carrying value represents the accretable yield which is recognized into interest income over the remaining life of the loan (or pool of loans) using the constant effective yield method. Subsequent decreases in expected cash flows that are attributable, at least in part, to credit quality are recognized as impairments through a charge to the provision for credit losses resulting in an increase in the ALLL. Subsequent increases in expected cash flows are recognized as a provision recapture of previously recorded ALLL or prospectively through an adjustment of the loan's or pool's yield over its remaining life.

Loans Held for Sale

We designate loans as held for sale when we have the intent to sell them. We transfer loans to the Loans held for sale

category at the lower of cost or estimated fair value less cost to sell. At the time of transfer, write-downs on the loans are recorded as charge-offs. We establish a new cost basis upon transfer. Any subsequent lower-of-cost-or-market adjustment is determined on an individual loan basis and is recognized as a valuation allowance with any charges included in Other noninterest income.

We have elected to account for certain commercial and residential mortgage loans held for sale at fair value. The changes in the fair value of the commercial mortgage loans are measured and recorded in Other noninterest income while the residential mortgage loans are measured and recorded in Residential mortgage noninterest income each period. See Note 6 Fair Value for additional information.

Interest income with respect to loans held for sale is accrued based on the principal amount outstanding and the loan's contractual interest rate.

In certain circumstances, loans designated as held for sale may be transferred to held for investment based on a change in strategy. We transfer these loans at the lower of cost or estimated fair value; however, any loans originated or purchased for held for sale and designated at fair value remain at fair value for the life of the loan.

Leases

We provide financing for various types of equipment, including aircraft, energy and power systems, and vehicles through a variety of lease arrangements. Direct financing leases are carried at the aggregate of lease payments plus estimated residual value of the leased equipment, less unearned income. Leveraged leases, a form of financing lease, are carried net of nonrecourse debt. We recognize income over the term of the lease using the constant effective yield method. Lease residual values are reviewed for impairment at least annually. Gains or losses on the sale of leased assets are included in Other noninterest income while valuation adjustments on lease residuals are included in Other noninterest expense.

Loan Sales, Loan Securitizations and Retained Interests

We recognize the sale of loans or other financial assets when the transferred assets are legally isolated from our creditors and the appropriate accounting criteria are met. We have sold mortgage, credit card and other loans through securitization transactions. In a securitization, financial assets are transferred into trusts or to SPEs in transactions to effectively legally isolate the assets from us.

ASC 860 – Transfers and Servicing requires a true sale legal analysis to address several relevant factors, such as the nature and level of recourse to the transferor, and the amount and nature of retained interests in the loans sold to support whether the transferred loans would be legally isolated from

Table of Contents

the transferor's assets in the case of bankruptcy. Once the legal isolation test has been met, other factors concerning the nature and extent of the transferor's control and the rights of the transferee over the transferred assets are taken into account in order to determine whether derecognition of assets is warranted.

In a securitization, the trust or SPE issues beneficial interests in the form of senior and subordinated securities backed or collateralized by the assets sold to the trust. The senior classes of the asset-backed securities typically receive investment grade credit ratings at the time of issuance. These ratings are generally achieved through the creation of lower-rated subordinated classes of asset-backed securities, as well as subordinated or residual interests. In certain cases, we may retain a portion or all of the securities issued, interest-only strips, one or more subordinated tranches, servicing rights and, in some cases, cash reserve accounts. Securitized loans are removed from the balance sheet and a net gain or loss is recognized in Noninterest income at the time of initial sale. Gains or losses recognized on the sale of the loans depend on

the fair value of the loans sold and the retained interests at the date of sale. We generally estimate the fair value of the retained interests based on the present value of future expected cash flows using assumptions as to discount rates, interest rates, prepayment speeds, credit losses and servicing costs, if applicable.

With the exception of loan sales to certain U.S. government-chartered entities, our loan sales and securitizations are generally structured without recourse to us except for representations and warranties and with no restrictions on the retained interests. We originate, sell and service commercial mortgage loans under the Federal National Mortgage Association (FNMA) Delegated Underwriting and Servicing (DUS) program. Under the provisions of the DUS program, we participate in a loss-sharing arrangement with FNMA. When we are obligated for loss-sharing or recourse, our policy is to record such liabilities initially at fair value and subsequently reserve for estimated losses in accordance with guidance contained in applicable GAAP.

Nonperforming Loans and Leases

The matrix below summarizes our policies for classifying certain loans as nonperforming loans and/or discontinuing the accrual of loan interest income.

Commercial loans	
Loans Classified as Nonperforming and Accounted for as Nonaccrual	<ul style="list-style-type: none"> Loans accounted for at amortized cost where: <ul style="list-style-type: none"> The loan is 90 days or more past due. The loan is rated substandard or worse due to the determination that full collection of principal and interest is not probable as demonstrated by the following conditions: <ul style="list-style-type: none"> The collection of principal or interest is 90 days or more past due; Reasonable doubt exists as to the certainty of the borrower's future debt service ability, according to the terms of the credit arrangement, regardless of whether 90 days have passed or not; The borrower has filed or will likely file for bankruptcy; The bank advances additional funds to cover principal or interest; We are in the process of liquidating a commercial borrower; or We are pursuing remedies under a guarantee.
Loans Excluded from Nonperforming Classification but Accounted for as Nonaccrual	<ul style="list-style-type: none"> Loans accounted for under the fair value option and full collection of principal and interest is not probable. Loans accounted for at the lower of cost or market less costs to sell (held for sale) and full collection of principal and interest is not probable.
Loans Excluded from Nonperforming Classification and Nonaccrual Accounting	<ul style="list-style-type: none"> Purchased impaired loans because interest income is accreted through the accounting model. Loans that are well secured and in the process of collection.

(continued on following page)

Table of Contents

(continued from previous page)

Consumer loans	
Loans Classified as Nonperforming and Accounted for as Nonaccrual	<ul style="list-style-type: none"> Loans accounted for at amortized cost where full collection of contractual principal and interest is not deemed probable as demonstrated in the policies below: <ul style="list-style-type: none"> The loan is 90 days past due for home equity and installment loans, and 180 days past due for well secured residential real estate loans; The loan has been modified and classified as a troubled debt restructuring (TDR); Notification of bankruptcy has been received within the last 60 days; The bank holds a subordinate lien position in the loan and the first lien mortgage loan is seriously stressed (i.e., 90 days or more past due); Other loans within the same borrower relationship have been placed on nonaccrual or charge-offs have been taken on them; The bank has repossessed non-real estate collateral securing the loan; or The bank has charged-off the loan to the value of the collateral.
Loans Excluded from Nonperforming Classification but Accounted for as Nonaccrual	<ul style="list-style-type: none"> Loans accounted for under the fair value option and full collection of principal and interest is not probable. Loans accounted for at the lower of cost or market less costs to sell (held for sale) and full collection of principal and interest is not probable.
Loans Excluded from Nonperforming Classification and Nonaccrual Accounting	<ul style="list-style-type: none"> Purchased impaired loans because interest income is accreted through the accounting model. Certain government insured loans where substantially all principal and interest is insured. Residential real estate loans that are well secured and in the process of collection. Consumer loans and lines of credit, not secured by residential real estate, as permitted by regulatory guidance.

See Note 3 Asset Quality in this Report for additional detail on nonperforming assets and asset quality indicators for commercial and consumer loans.

Commercial Loans

We generally charge off Commercial Lending (Commercial, Commercial Real Estate, and Equipment Lease Financing) nonperforming loans when we determine that a specific loan, or portion thereof, is uncollectible. This determination is based on the specific facts and circumstances of the individual loans. In making this determination, we consider the viability of the business or project as a going concern, the past due status when the asset is not well-secured, the expected cash flows to repay the loan, the value of the collateral, and the ability and willingness of any guarantors to perform.

Additionally, in general, for smaller commercial loans of \$1 million or less, a partial or full charge-off occurs at 120 days past due for term loans and 180 days past due for revolving. Certain small business credit card balances that are placed on nonaccrual status when they become 90 days or more past due are charged-off at 180 days past due.

Consumer Loans

Home equity installment loans, home equity lines of credit, and residential real estate loans that are not well-secured and in the process of collection are charged-off at no later than 180 days past due. At that time, the basis in the loan is reduced to the fair value of the collateral less costs to sell. In addition to this policy, the bank recognizes a charge-off on a secured consumer loan when:

- The bank holds a subordinate lien position in the loan and a foreclosure notice has been received on the first lien loan;
- The bank holds a subordinate lien position in the loan which is 30 days or more past due with a combined loan to value ratio of greater than or equal to 110% and the first lien loan is seriously stressed (i.e., 90 days or more past due);
- The loan is modified or otherwise restructured in a manner that results in the loan becoming collateral dependent;
- Notification of bankruptcy has been received within the last 60 days;
- The borrower has been discharged from personal liability through Chapter 7 bankruptcy and has not formally reaffirmed his or her loan obligation to us; or
- The collateral securing the loan has been repossessed and the value of the collateral is less than the recorded investment of the loan outstanding.

Table of Contents

For loans that continue to meet any of the above policies, collateral values are updated annually and subsequent declines in collateral values are charged-off resulting in incremental provision for credit loss.

Most consumer loans and lines of credit, not secured by residential real estate, are charged off after 120-180 days past due.

Accounting for Nonperforming Assets and Leases and Other Nonaccrual Loans

For accrual loans, interest income is accrued on a monthly basis and certain fees and costs are deferred upon origination and recognized in income over the term of the loan utilizing an effective yield method. For nonaccrual loans, interest income accrual and deferred fee/cost recognition is discontinued. Additionally, the current year accrued and uncollected interest is reversed through Net interest income and prior year accrued and uncollected interest is charged-off. Nonaccrual loans may also be charged-off to reduce the basis to the fair value of collateral less costs to sell.

If payment is received on a nonaccrual loan, generally the payment is first applied to the recorded investment; payments are then applied to recover any charged-off amounts related to the loan. Finally, if both recorded investment and any charge-offs have been recovered, then the payment will be recorded as fee and interest income. For certain consumer loans, the receipt of interest payments is recognized as interest income on a cash basis. Cash basis income recognition is applied if a loan's recorded investment is deemed fully collectible and the loan has performed for at least six months.

For TDRs, payments are applied based upon their contractual terms unless the related loan is deemed non-performing. TDRs are generally included in nonperforming and nonaccrual loans. However, after a reasonable period of time in which the loan performs under restructured terms and meets other performance indicators, it is returned to performing/accruing status. This return to performing/accruing status demonstrates that the bank expects to collect all of the loan's remaining contractual principal and interest. TDRs resulting from 1) borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and 2) borrowers that are not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status.

Other nonaccrual loans are generally not returned to accrual status until the borrower has performed in accordance with the contractual terms and other performance indicators for at least six months, the period of time which was determined to demonstrate the expected collection of the loan's remaining contractual principal and interest. When a nonperforming loan is returned to accrual status, it is then considered a performing loan.

See Note 3 Asset Quality and Note 4 Allowances for Loan and Lease Losses in this Report for additional TDR information.

Foreclosed assets consist of any asset seized or property acquired through a foreclosure proceeding or acceptance of a deed-in-lieu of foreclosure. Other real estate owned comprises principally commercial and residential real estate properties obtained in partial or total satisfaction of loan obligations. After obtaining a foreclosure judgment, or in some jurisdictions the initiation of proceedings under a power of sale in the loan instruments, the property will be sold. When we are awarded title or completion of deed-in-lieu of foreclosure, we transfer the loan to foreclosed assets included in Other assets on our Consolidated Balance Sheet. Property obtained in satisfaction of a loan is initially recorded at estimated fair value less cost to sell. Based upon the estimated fair value less cost to sell, the recorded investment of the loan is adjusted and, typically, a charge-off/recovery is recognized to the Allowance for Loan and Lease Losses (ALLL). We estimate fair values primarily based on appraisals, or sales agreements with third parties. Subsequently, foreclosed assets are valued at the lower of the amount recorded at acquisition date or estimated fair value less cost to sell. Valuation adjustments on these assets and gains or losses realized from disposition of such property are reflected in Other noninterest expense.

For certain mortgage loans that have a government guarantee, we establish a separate other receivable upon foreclosure. The receivable is measured based on the loan balance (inclusive of principal and interest) that is expected to be recovered from the guarantor.

Allowance for Loan and Lease Losses

We maintain the ALLL at a level that we believe to be appropriate to absorb estimated probable credit losses incurred in the loan and lease portfolios as of the balance sheet date. Our determination of the allowance is based on periodic evaluations of these loan and lease portfolios and other relevant factors. This critical estimate includes significant use of our own historical data and complex methods to interpret this data. These evaluations are inherently subjective, as they require material estimates and may be susceptible to significant change, and include, among others:

- Probability of default (PD),
- Loss given default (LGD),
- Outstanding balance of the loan,
- Movement through delinquency stages,
- Amounts and timing of expected future cash flows,
- Value of collateral, which may be obtained from third parties, and
- Qualitative factors, such as changes in current economic conditions, that may not be reflected in modeled results.

Table of Contents

For all loans, except purchased impaired loans, the ALLL is the sum of three components: (i) asset specific/individual impaired reserves, (ii) quantitative (formulaic or pooled) reserves and (iii) qualitative (judgmental) reserves.

The reserve calculation and determination process is dependent on the use of key assumptions. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower, and economic conditions. Key reserve assumptions are periodically updated.

See Note 4 Allowances for Loan and Lease Losses for additional detail on our ALLL.

Asset Specific/Individual Component

Nonperforming loans that are considered impaired under ASC 310 – Receivables, which include all commercial and consumer TDRs, are evaluated for a specific reserve. Specific reserve allocations are determined as follows:

- For commercial nonperforming loans and commercial TDRs greater than or equal to a defined dollar threshold, specific reserves are based on an analysis of the present value of the loan's expected future cash flows, the loan's observable market price or the fair value of the collateral.
- For commercial nonperforming loans and commercial TDRs below the defined dollar threshold, the individual loan's loss given default (LGD) percentage is multiplied by the loan balance and the results are aggregated for purposes of measuring specific reserve impairment.
- Consumer nonperforming loans are collectively reserved for unless classified as consumer TDRs. For consumer TDRs, specific reserves are determined through an analysis of the present value of the loan's expected future cash flows, except for those instances where loans have been deemed collateral dependent, including loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us. Once that determination has been made, those TDRs are charged down to the fair value of the collateral less costs to sell at each period end.

Commercial Lending Quantitative Component

The estimates of the quantitative component of ALLL for incurred losses within the commercial lending portfolio segment are determined through statistical loss modeling utilizing PD, LGD and outstanding balance of the loan. Based upon loan risk ratings, we assign PDs and LGDs. Each of these statistical parameters is determined based on internal historical data and market data. PD is influenced by such factors as liquidity, industry, obligor financial structure, access to capital and cash flow. LGD is influenced by

collateral type, original and/or updated loan-to-value ratio (LTV), facility structure and other factors.

Consumer Lending Quantitative Component

Quantitative estimates within the consumer lending portfolio segment are calculated primarily using a roll-rate model based on statistical relationships, calculated from historical data that estimate the movement of loan outstandings through the various stages of delinquency and ultimately charge-off over our loss emergence period.

Qualitative Component

While our reserve methodologies strive to reflect all relevant risk factors, there continues to be uncertainty associated with, but not limited to, potential imprecision in the estimation process due to the inherent time lag of obtaining information and normal variations between estimates and actual outcomes. We provide additional reserves that are designed to provide coverage for losses attributable to such risks. The ALLL also includes factors that may not be directly measured in the determination of specific or pooled reserves. Such qualitative factors may include:

- Industry concentrations and conditions,
- Recent credit quality trends,
- Recent loss experience in particular portfolios,
- Recent macro-economic factors,
- Model imprecision,
- Changes in lending policies and procedures,
- Timing of available information, including the performance of first lien positions, and
- Limitations of available historical data.

Allowance for Purchased Non-Impaired Loans

ALLL for purchased non-impaired loans is determined based upon a comparison between the methodologies described above and the remaining acquisition date fair value discount that has yet to be accreted into interest income. After making the comparison, an ALLL is recorded for the amount greater than the discount, or no ALLL is recorded if the discount is greater.

Allowance for Purchased Impaired Loans

ALLL for purchased impaired loans is determined in accordance with ASC310-30 by comparing the net present value of management's best estimate of cash flows expected to be collected over the life of the loan (or pool of loans) to the recorded investment for a given loan (or pool of loans). In cases where the net present value of expected cash flows is lower than the recorded investment, ALLL is established.

Allowance for Unfunded Loan Commitments and Letters of Credit

We maintain the allowance for unfunded loan commitments and letters of credit at a level we believe is appropriate to absorb estimated probable credit losses incurred on these

Table of Contents

unfunded credit facilities as of the balance sheet date. We determine the allowance based on periodic evaluations of the unfunded credit facilities, including an assessment of the probability of commitment usage, credit risk factors, and, solely for commercial lending, the terms and expiration dates of the unfunded credit facilities. Other than the estimation of the probability of funding, the reserve for unfunded loan commitments is estimated in a manner similar to the methodology used for determining reserves for funded exposures. The allowance for unfunded loan commitments and letters of credit is recorded as a liability on the Consolidated Balance Sheet. Net adjustments to the allowance for unfunded loan commitments and letters of credit are included in the provision for credit losses.

Mortgage Servicing Rights

We provide servicing under various loan servicing contracts for commercial and residential loans. These contracts are either purchased in the open market or retained as part of a loan securitization or loan sale. All newly acquired or originated servicing rights are initially measured at fair value. Fair value is based on the present value of the expected future net cash flows, including assumptions as to:

- Deposit balances and interest rates for escrow and commercial reserve earnings,
- Discount rates,
- Estimated prepayment speeds, and
- Estimated servicing costs.

We measure commercial and residential MSR at fair value in order to reduce any potential measurement mismatch between our economic hedges and the MSRs. We manage the risk by hedging the fair value of the MSR with derivatives and securities which are expected to increase in value when the value of the servicing right declines. Changes in the fair value of MSRs are recognized as gains/(losses). The fair value of these servicing rights is estimated by using a cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other economic factors which are determined based on current market conditions.

Fair Value of Financial Instruments

The fair value of financial instruments and the methods and assumptions used in estimating fair value amounts and financial assets and liabilities for which fair value was elected are detailed in Note 6 Fair Value.

Goodwill

We assess goodwill for impairment at least annually, in the fourth quarter, or when events or changes in circumstances indicate the assets might be impaired.

Depreciation and Amortization

For financial reporting purposes, we depreciate premises and equipment, net of salvage value, principally using the straight-line method over their estimated useful lives.

We use estimated useful lives for furniture and equipment ranging from one to 10 years, and depreciate buildings over an estimated useful life of up to 40 years. We amortize leasehold improvements over their estimated useful lives of up to 15 years or the respective lease terms, whichever is shorter.

We purchase, as well as internally develop and customize, certain software to enhance or perform internal business functions. Software development costs incurred in the planning and post-development project stages are charged to Noninterest expense. Costs associated with designing software configuration and interfaces, installation, coding programs and testing systems are capitalized and amortized using the straight-line method over periods ranging from one to 10 years.

Other Comprehensive Income

Other comprehensive income, on an after-tax basis, primarily consists of unrealized gains or losses, excluding OTTI attributable to credit deterioration, on investment securities classified as available for sale, unrealized gains or losses on derivatives designated as cash flow hedges, and changes in pension and other postretirement benefit plan liability adjustments. Details of each component are included in Note 16 Other Comprehensive Income.

Treasury Stock

We record common stock purchased for treasury at cost. At the date of subsequent reissue, the treasury stock account is reduced by the cost of such stock on the first-in, first-out basis.

Derivative Instruments and Hedging Activities

We use a variety of financial derivatives as part of our overall asset and liability risk management process to help manage exposure to interest rate, market and credit risk inherent in our business activities. Interest rate and total return swaps, swaptions, interest rate caps and floors, options, forwards, and futures contracts are the primary instruments we use for interest rate risk management.

Financial derivatives involve, to varying degrees, interest rate, market and credit risk. We manage these risks as part of our asset and liability management process and through credit policies and procedures.

We recognize all derivative instruments at fair value as either Other assets or Other liabilities on the Consolidated Balance

Table of Contents

Sheet and the related cash flows in the Operating Activities section of the Consolidated Statement Of Cash Flows. Adjustments for counterparty credit risk are included in the determination of fair value. The accounting for changes in the fair value of a derivative instrument depends on whether it has been designated and qualifies as part of a cash flow or net investment hedging relationship. For all other derivatives, changes in fair value are recognized in earnings.

We utilize a net presentation for derivative instruments on the Consolidated Balance Sheet taking into consideration the effects of legally enforceable master netting agreements. Cash collateral exchanged with counterparties is also netted against the applicable derivative exposures by offsetting obligations to return, or general rights to reclaim, cash collateral against the fair values of the net derivatives being collateralized.

For those derivative instruments that are designated and qualify as accounting hedges, we designate the hedging instrument, based on the exposure being hedged, as a fair value hedge, a cash flow hedge or a hedge of the net investment in a foreign operation.

We formally document the relationship between the hedging instruments and hedged items, as well as the risk management objective and strategy, before undertaking an accounting hedge. To qualify for hedge accounting, the derivatives and related hedged items must be designated as a hedge at inception of the hedge relationship. For accounting hedge relationships, we formally assess, both at the inception of the hedge and on an ongoing basis, if the derivatives are highly effective in offsetting designated changes in the fair value or cash flows of the hedged item. If it is determined that the derivative instrument is not highly effective, hedge accounting is discontinued.

For derivatives that are designated as fair value hedges (*i.e.*, hedging the exposure to changes in the fair value of an asset or a liability attributable to a particular risk, such as changes in LIBOR), changes in the fair value of the hedging instrument are recognized in earnings and offset by also recognizing in earnings the changes in the fair value of the hedged item attributable to the hedged risk. To the extent the change in fair value of the derivative does not offset the change in fair value of the hedged item, the difference or ineffectiveness is reflected in the Consolidated Income Statement in the same financial statement category as the hedged item.

For derivatives designated as cash flow hedges (*i.e.*, hedging the exposure to variability in expected future cash flows), the effective portions of the gain or loss on derivatives are reported as a component of Accumulated other comprehensive income (loss) and subsequently reclassified to income in the same period or periods during which the hedged transaction

affects earnings. The change in fair value attributable to the ineffective portion of the hedging instrument is recognized immediately in Interest income.

For derivatives designated as a hedge of net investment in a foreign operation, the effective portions of the gain or loss on the derivatives are reported as a component of Accumulated other comprehensive income (loss). The change in fair value attributable to the ineffective portion of the hedging instrument is recognized immediately in Noninterest income.

We discontinue hedge accounting when it is determined that the derivative no longer qualifies as an effective hedge; the derivative expires or is sold, terminated or exercised; or the derivative is de-designated as a fair value or cash flow hedge or, for a cash flow hedge, it is no longer probable that the forecasted transaction will occur by the end of the originally specified time period. If we determine that the derivative no longer qualifies as a fair value or cash flow hedge and hedge accounting is discontinued, the derivative will continue to be recorded on the balance sheet at its fair value with changes in fair value included in current earnings. For a discontinued fair value hedge, the previously hedged item is no longer adjusted for changes in fair value. For a discontinued cash flow hedge the amount reported in Accumulated other comprehensive income (loss) up to the date of sale, termination or de-designation continues to be reported in Accumulated other comprehensive income (loss) until the forecasted transaction affects earnings.

For a cash flow hedge that is discontinued because it is no longer probable that a forecasted transaction will occur, the gains and losses in Accumulated other comprehensive income (loss) will be recognized immediately into earnings. We did not terminate any cash flow hedges in 2016, 2015 or 2014 due to a determination that a forecasted transaction was no longer probable of occurring.

We purchase or originate financial instruments that contain an embedded derivative. At the inception of the transaction, we assess if the economic characteristics of the embedded derivative are clearly and closely related to the economic characteristics of the host contract, whether the hybrid financial instrument is measured at fair value with changes in fair value reported in earnings, and whether a separate instrument with the same terms as the embedded derivative would be a derivative. If the embedded derivative does not meet all of these conditions, the embedded derivative is recorded separately from the host contract with changes in fair value recorded in earnings, unless we elect to account for the hybrid instrument at fair value.

We have elected, on an instrument-by-instrument basis, fair value measurement for certain financial instruments with embedded derivatives.

Table of Contents

We enter into commitments to originate residential and commercial mortgage loans for sale. We also enter into commitments to purchase or sell commercial and residential real estate loans. These commitments are accounted for as free-standing derivatives which are recorded at fair value in Other assets or Other liabilities on the Consolidated Balance Sheet. Any gain or loss from the change in fair value after the inception of the commitment is recognized in Noninterest income.

Income Taxes

We account for income taxes under the asset and liability method. Deferred tax assets and liabilities are determined based on differences between the financial reporting and tax bases of assets and liabilities and are measured using the enacted tax rates and laws that we expect will apply at the time when we believe the differences will reverse. The recognition of deferred tax assets requires an assessment to determine the realization of such assets. Realization refers to the incremental benefit achieved through the reduction in future taxes payable or refunds receivable from the deferred tax assets, assuming that the underlying deductible differences and carryforwards are the last items to enter into the determination of future taxable income. We establish a valuation allowance for tax assets when it is more likely than not that they will not be realized, based upon all available positive and negative evidence.

We use the deferral method of accounting on investments that generate investment tax credits. Under this method, the investment tax credits are recognized as a reduction to the related asset.

Earnings Per Common Share

Basic earnings per common share is calculated using the two-class method to determine income attributable to common shareholders. Unvested share-based payment awards that contain nonforfeitable rights to dividends or dividend equivalents are considered participating securities under the two-class method. Distributed dividends and dividend equivalents related to participating securities and an allocation of undistributed net income to participating securities reduce the amount of income attributable to common shareholders. Income attributable to common shareholders is then divided by the weighted-average common shares outstanding for the period.

Diluted earnings per common share is calculated under the more dilutive of either the treasury method or the two-class method. For the diluted calculation, we increase the weighted-average number of shares of common stock outstanding by the assumed conversion of outstanding convertible preferred stock from the beginning of the year or date of issuance, if later, and the number of shares of common stock that would be issued assuming the exercise of stock options and warrants and the issuance of incentive shares using the treasury stock method.

These adjustments to the weighted-average number of shares of common stock outstanding are made only when such adjustments will dilute earnings per common share. See Note 14 Earnings Per Share for additional information.

Recently Adopted Accounting Standards

In March 2016, the Financial Accounting Standards Board ("FASB") issued Accounting Standards Update ("ASU") 2016-09, Compensation – Stock Compensation (Topic 718): *Improvements to Employee Share-Based Payment Accounting*. This ASU simplifies the accounting for several aspects of share-based payment transactions, including income tax consequences, classification of awards as either equity or liabilities, and classification on the statement of cash flows. The changes which impacted us included a requirement that all excess tax benefits and deficiencies that pertain to share-based payment arrangements be recognized within income tax expense line instead of Capital surplus – common stock and other. This change also removes the impact of the excess tax benefits and deficiencies from the calculation of diluted earnings per share. We are required to apply these changes on a prospective basis. Additionally, the ASU no longer requires a presentation of excess tax benefits and deficiencies related to the vesting and exercise of share-based compensation as both an operating outflow and financing inflow on the statement of cash flows. This change was applied on a retrospective basis. We elected to early adopt this standard as of January 1, 2016. Adoption of this ASU did not have a material impact on our results of operations or financial position.

In February 2015, the FASB issued ASU 2015-02, Consolidation (Topic 810): Amendments to the Consolidation Analysis. All legal entities are subject to evaluation under this ASU, including investment companies and certain other entities measured in a manner consistent with ASC 946 Financial Services – Investment Companies which were previously excluded. The ASU changes the analysis that a reporting entity must perform to determine whether it should consolidate certain types of legal entities. Specifically, the ASU modifies the evaluation of whether limited partnerships and similar legal entities are variable interest entities (VIEs) or voting interest entities (VOEs); eliminates the presumption that a general partner should consolidate a limited partnership; potentially changes the consolidation conclusions of reporting entities that are involved with VIEs, in particular those that have fee arrangements and related party arrangements; and provides a scope exception for reporting entities with interests held in certain money market funds. We adopted this standard as of January 1, 2016 under a modified retrospective approach. The impact of adoption resulted in a decrease of \$.4 billion in consolidated total assets at January 1, 2016. In addition the adoption impacted the classification of certain limited partnerships and legal entities as either VIEs or VOEs. See Note 2 Loan Sale and Servicing Activities and Variable Interest Entities for further disclosure on adoption of the standard.

NOTE 2 LOAN SALE AND SERVICING ACTIVITIES AND VARIABLE INTEREST ENTITIES

Loan Sale and Servicing Activities

We have transferred residential and commercial mortgage loans in securitization or sales transactions in which we have continuing involvement. These transfers have occurred through Agency securitization, Non-agency securitization, and loan sale transactions. Agency securitizations consist of securitization transactions with Federal National Mortgage Association (FNMA), Federal Home Loan Mortgage Corporation (FHLMC) and Government National Mortgage Association (GNMA) (collectively the Agencies). FNMA and FHLMC generally securitize our transferred loans into mortgage-backed securities for sale into the secondary market through special purpose entities (SPEs) that they sponsor. We, as an authorized GNMA issuer/servicer, pool Federal Housing Administration (FHA) and Department of Veterans Affairs (VA) insured loans into mortgage-backed securities for sale into the secondary market. In Non-agency securitizations, we have transferred loans into securitization SPEs. In other instances, third-party investors have also purchased our loans in loan sale transactions and in certain instances have subsequently sold these loans into securitization SPEs. Securitization SPEs utilized in the Agency and Non-agency securitization transactions are variable interest entities (VIEs).

Our continuing involvement in the FNMA, FHLMC, and GNMA securitizations, Non-agency securitizations, and loan sale transactions generally consists of servicing, repurchasing previously transferred loans under certain conditions and loss share arrangements, and, in limited circumstances, holding of mortgage-backed securities issued by the securitization SPEs.

Depending on the transaction, we may act as the master, primary, and/or special servicer to the securitization SPEs or third-party investors. Servicing responsibilities typically consist of collecting and remitting monthly borrower principal and interest payments, maintaining escrow deposits, performing loss mitigation and foreclosure activities, and, in certain instances, funding of servicing advances. Servicing advances, which are reimbursable, are made for principal and interest and collateral protection and are carried in Other assets at cost.

We earn servicing and other ancillary fees for our role as servicer and, depending on the contractual terms of the servicing arrangement, we can be terminated as servicer with or without cause. At the consummation date of each type of loan transfer where we retain the servicing, we recognize a servicing right at fair value. See Note 6 Fair Value and Note 7 Goodwill and Mortgage Servicing Rights for further discussion of our servicing rights.

Certain loans transferred to the Agencies contain removal of account provisions (ROAPs). Under these ROAPs, we hold an option to repurchase at par individual delinquent loans that meet certain criteria. In other limited cases, the U.S. Department of Housing and Urban Development (HUD) has granted us the right to repurchase current loans when we intend to modify the borrower's interest rate under established guidelines. When we have the unilateral ability to repurchase a loan, effective control over the loan has been regained and we recognize an asset (in either Loans or Loans held for sale) and a corresponding liability (in Other borrowed funds) on the balance sheet regardless of our intent to repurchase the loan.

The Agency and Non-agency mortgage-backed securities issued by the securitization SPEs that are purchased and held on our balance sheet are typically purchased in the secondary market. We do not retain any credit risk on our Agency mortgage-backed security positions as FNMA, FHLMC, and the U.S. Government (for GNMA) guarantee losses of principal and interest.

We also have involvement with certain Agency and Non-agency commercial securitization SPEs where we have not transferred commercial mortgage loans. These SPEs were sponsored by independent third-parties and the loans held by these entities were purchased exclusively from other third-parties. Generally, our involvement with these SPEs is as servicer with servicing activities consistent with those described above.

We recognize a liability for our loss exposure associated with contractual obligations to repurchase previously transferred loans due to possible breaches of representations and warranties and also for loss sharing arrangements (recourse obligations) with the Agencies. Other than providing temporary liquidity under servicing advances and our loss exposure associated with our repurchase and recourse obligations, we have not provided nor are we required to provide any type of credit support, guarantees, or commitments to the securitization SPEs or third-party investors in these transactions.

Table of Contents

The following table provides cash flows associated with our loan sale and servicing activities:

Table 34: Cash Flows Associated with Loan Sale and Servicing Activities

In millions	Residential Mortgages	Commercial Mortgages (a)
CASH FLOWS – Year ended		
December 31, 2016		
Sales of loans (b)	\$ 6,913	\$ 3,810
Repurchases of previously transferred loans (c)	534	
Servicing fees (d)	374	125
Servicing advances recovered/(funded), net	109	(14)
Cash flows on mortgage-backed securities held (e)	1,727	283
CASH FLOWS – Year ended		
December 31, 2015		
Sales of loans (b)	\$ 8,121	\$ 4,398
Repurchases of previously transferred loans (c)	580	
Servicing fees (d)	339	120
Servicing advances recovered/(funded), net	90	48
Cash flows on mortgage-backed securities held (e)	1,458	184

- (a) Represents cash flow information associated with both commercial mortgage loan transfer and servicing activities.
- (b) Gains/losses recognized on sales of loans were insignificant.
- (c) Includes residential mortgage government insured or guaranteed loans eligible for repurchase through the exercise of our ROAP option, and loans repurchased due to alleged breaches of origination covenants or representations and warranties made to purchasers.
- (d) Includes contractually specified servicing fees, late charges and ancillary fees.
- (e) Represents cash flows on securities we hold issued by a securitization SPE in which we transferred to and/or services loans. The carrying values of such securities held were \$6.9 billion in residential mortgage-backed securities and \$9 billion in commercial mortgage-backed securities at December 31, 2016 and \$6.6 billion in residential mortgage-backed securities and \$1.3 billion in commercial mortgage-backed securities at December 31, 2015.

Table 35 presents information about the principal balances of transferred loans that we service and are not recorded on our Consolidated Balance Sheet. We would only experience a loss on these transferred loans if we were required to repurchase a loan due to a breach in representations and warranties or a loss sharing arrangement associated with our continuing involvement with these loans. The estimate of losses related to breaches in representations and warranties was insignificant at December 31, 2016.

Table 35: Principal Balance, Delinquent Loans, and Net Charge-offs Related to Serviced Loans For Others

In millions	Residential Mortgages	Commercial Mortgages (a)
December 31, 2016		
Total principal balance	\$ 66,081	\$ 45,855
Delinquent loans (b)	\$ 1,422	\$ 941
December 31, 2015		
Total principal balance	\$ 72,898	\$ 53,789
Delinquent loans (b)	\$ 1,923	\$ 1,057
Year ended December 31, 2016		
Net charge-offs (c)	\$ 97	\$ 1,439
Year ended December 31, 2015		
Net charge-offs (c)	\$ 117	\$ 595

- (a) Represents information at the securitization level in which we have sold loans and we are the servicer for the securitization.
- (b) Serviced delinquent loans are 90 days or more past due or are in process of foreclosure.
- (c) Net charge-offs for Residential mortgages represent credit losses less recoveries distributed and as reported to investors during the period. Net charge-offs for Commercial mortgages represent credit losses less recoveries distributed and as reported by the trustee for commercial mortgage backed securitizations. Realized losses for Agency securitizations are not reflected as we do not manage the underlying real estate upon foreclosure and, as such, do not have access to loss information.

Variable Interest Entities (VIEs)

We are involved with various entities in the normal course of business that are deemed to be VIEs. We assess VIEs for consolidation based upon the accounting policies described in Note 1 Accounting Policies. In the first quarter of 2016, we adopted ASU 2015-02 which modified the evaluation of whether limited partnerships and similar legal entities are VIEs or voting interest entities (VOEs). We have not provided additional financial support to these entities which we are not contractually required to provide. As a result of the adoption of ASU 2015-02, our consolidated VIEs were insignificant at December 31, 2016. Total assets of consolidated VIEs at December 31, 2015 were \$1.9 billion which mainly comprised \$1.3 billion of loans and \$4 billion of other assets. At December 31, 2015, total liabilities of consolidated VIEs were \$4 billion.

Table of Contents

The following table provides a summary of non-consolidated VIEs with which we have significant continuing involvement but are not the primary beneficiary. We do not consider our continuing involvement to be significant when it relates to a VIE where we only invest in securities issued by the VIE and were not involved in the design of the VIE or where no transfers have occurred between us and the VIE. We have excluded certain transactions with non-consolidated VIEs from the balances presented in Table 36 where we have determined that our continuing involvement is not significant. In addition, where we only have lending arrangements in the normal course of business with entities that could be VIEs, we have excluded these transactions with non-consolidated entities from the balances presented in Table 36. These loans are included as part of the asset quality disclosures that we make in Note 3 Asset Quality.

Table 36: Non-Consolidated VIEs

In millions	PNC Risk of Loss (a)	Carrying Value of Assets Owned by PNC	Carrying Value of Liabilities Owned by PNC
December 31, 2016 (b)			
Mortgage-Backed Securitizations (c)	\$ 8,003	\$ 8,003(d)	
Tax Credit Investments and Other	3,083	3,043(e)	\$ 823(f)
Total	\$11,086	\$ 11,046	\$ 823
December 31, 2015			
Mortgage-Backed Securitizations (c)	\$ 8,178	\$ 8,178(d)	\$ 2
Tax Credit Investments and Other	2,551	2,622(e)	836(f)
Total	\$10,729	\$ 10,800	\$ 838

(a) This represents loans, investments and other assets related to non-consolidated VIEs, net of collateral (if applicable).

(b) Amounts for December 31, 2016 reflect the first quarter 2016 adoption of ASU 2015-02.

(c) Amounts reflect involvement with securitization SPEs where we transferred to and/or services loans for an SPE and we hold securities issued by that SPE. Values disclosed in the PNC Risk of Loss column represent our maximum exposure to loss for those securities' holdings.

(d) Included in Trading securities, Investment securities, Other intangible assets and Other assets on our Consolidated Balance Sheet.

(e) Included in Loans, Equity investments and Other assets on our Consolidated Balance Sheet.

(f) Included in Deposits and Other liabilities on our Consolidated Balance Sheet.

Mortgage-Backed Securitizations

In connection with each Agency and Non-agency residential and commercial mortgage-backed securitization discussed above, we evaluate each SPE utilized in these transactions for consolidation. In performing these assessments, we evaluate our level of continuing involvement in these transactions as the nature of our involvement ultimately determines whether or not we hold a variable interest and/or are the primary beneficiary of the SPE. Factors we consider in our consolidation assessment include the significance of (i) our role as servicer, (ii) our holdings of mortgage-backed securities issued by the securitization SPE, and (iii) the rights of third-party variable interest holders.

The first step in our assessment is to determine whether we hold a variable interest in the securitization SPE. We hold variable interests in Agency and Non-agency securitization SPEs through our holding of residential and commercial mortgage-backed securities issued by the SPEs and/or our recourse obligations. Each SPE in which we hold a variable interest is evaluated to determine whether we are the primary beneficiary of the entity. For Agency securitization transactions, our contractual role as servicer does not give us the power to direct the activities that most significantly affect the economic performance of the SPEs. Thus, we are not the primary beneficiary of these entities. For Non-agency securitization transactions, we would be the primary beneficiary to the extent our servicing activities give us the power to direct the activities that most significantly affect the economic performance of the SPE and we hold a more than insignificant variable interest in the entity.

Details about the Agency and Non-agency securitization SPEs where we hold a variable interest and are not the primary beneficiary are included in Table 36. Our maximum exposure to loss as a result of our involvement with these SPEs is the carrying value of the mortgage-backed securities, servicing assets, servicing advances, and our liabilities associated with our recourse obligations. Creditors of the securitization SPEs have no recourse to our assets or general credit.

Tax Credit Investments and Other

For tax credit investments in which we do not have the right to make decisions that will most significantly impact the economic performance of the entity, we are not the primary beneficiary and thus do not consolidate the entity. These investments are disclosed in Table 36. The table also reflects our maximum exposure to loss exclusive of any potential tax credit recapture. Our maximum exposure to loss is equal to our legally binding equity commitments adjusted for recorded impairment, partnership results, or amortization for qualifying low income housing tax credit investments when applicable. For all legally binding unfunded equity commitments, we increase our recognized investment and recognize a liability. As of December 31, 2016, we had a liability for unfunded commitments of \$.5 billion related to investments in qualified affordable housing projects which is reflected in Other liabilities on our Consolidated Balance Sheet.

Table 36 also includes our involvement in lease financing transactions with limited liability companies (LLCs) engaged in solar power generation that to a large extent provided returns in the form of tax credits. The outstanding financings and operating lease assets are reflected as Loans and Other assets, respectively, on our Consolidated Balance Sheet, whereas related liabilities are reported in Deposits and Other liabilities.

We make certain equity investments in various tax credit limited partnerships or LLCs. The purpose of these investments is to achieve a satisfactory return on capital and to assist us in achieving goals associated with the Community Reinvestment Act. During 2016, we recognized \$.2 billion of amortization, \$.2 billion of tax credits, and \$.1 billion of other tax benefits associated with qualified investments in low income housing tax credits within Income taxes. The amounts for 2015 were \$.2 billion, \$.2 billion and \$.1 billion, respectively.

NOTE 3 ASSET QUALITY

We closely monitor economic conditions and loan performance trends to manage and evaluate our exposure to credit risk. Trends in delinquency rates may be a key indicator, among other considerations, of credit risk within the loan portfolios. The measurement of delinquency status is based on the contractual terms of each loan. Loans that are 30 days or more past due in terms of payment are considered delinquent. Loan delinquencies exclude loans held for sale, purchased impaired loans, nonperforming loans and loans accounted for under the fair value option which are on nonaccrual status, but include government insured or guaranteed loans and accruing loans accounted for under the fair value option.

Nonperforming assets include nonperforming loans and leases, OREO, foreclosed and other assets. Nonperforming loans are those loans accounted for at amortized cost whose credit quality has deteriorated to the extent that full collection of contractual principal and interest is not probable. Interest income is not recognized on these loans. Loans accounted for under the fair value option are reported as performing loans as these loans are accounted for at fair value. However, when nonaccrual criteria is met, interest income is not recognized on these loans. Additionally, certain government insured or guaranteed loans for which we expect to collect substantially all principal and interest are not reported as nonperforming loans and continue to accrue interest. Purchased impaired loans are excluded from nonperforming loans as we are currently accreting interest income over the expected life of the loans.

See Note 1 Accounting Policies for additional information on our loan related policies.

Table of Contents

The following tables display the delinquency status of our loans and our nonperforming assets at December 31, 2016 and December 31, 2015, respectively.

Table 37: Analysis of Loan Portfolio (a)

	Accruing					Nonperforming Loans	Fair Value Option Nonaccrual Loans (c)	Purchased Impaired Loans	Total Loans (d)
	Current or Less Than 30 Days Past Due	30-59 Days Past Due	60-89 Days Past Due	90 Days Or More Past Due	Total Past Due (b)				
Dollars in millions									
December 31, 2016									
Commercial Lending									
Commercial	\$ 100,710	\$ 81	\$ 20	\$ 39	\$ 140	\$ 496		\$ 18	\$101,364
Commercial real estate	28,769	5	2		7	143		91	29,010
Equipment lease financing	7,535	29	1		30	16			7,581
Total commercial lending	137,014	115	23	39	177	655		109	137,955
Consumer Lending									
Home equity	27,820	64	30		94	914		1,121	29,949
Residential real estate	12,425	159	68	500	727(b)	501	\$ 219	1,726	15,598
Credit card	5,187	33	21	37	91	4			5,282
Other consumer									
Automobile	12,257	51	12	5	68	55			12,380
Education and other	9,235	140	78	201	419(b)	15			9,669
Total consumer lending	66,924	447	209	743	1,399	1,489	219	2,847	72,878
Total	\$ 203,938	\$ 562	\$ 232	\$ 782	\$1,576	\$ 2,144	\$ 219	\$ 2,956	\$210,833
Percentage of total loans	96.73%	.27%	.11%	.37%	.75%	1.02%	.10%	1.40%	100.00%
December 31, 2015									
Commercial Lending									
Commercial	\$ 98,075	\$ 69	\$ 32	\$ 45	\$ 146	\$ 351		\$ 36	\$ 98,608
Commercial real estate	27,134	10	4		14	187		133	27,468
Equipment lease financing	7,440	19	2		21	7			7,468
Total commercial lending	132,649	98	38	45	181	545		169	133,544
Consumer Lending									
Home equity	29,656	63	30		93	977		1,407	32,133
Residential real estate	10,918	142	65	566	773(b)	549	\$ 225	1,946	14,411
Credit card	4,779	28	19	33	80	3			4,862
Other consumer									
Automobile	11,067	41	10	4	55	35			11,157
Education and other	10,114	139	86	233	458(b)	17			10,589
Total consumer lending	66,534	413	210	836	1,459	1,581	225	3,353	73,152
Total	\$ 199,183	\$ 511	\$ 248	\$ 881	\$1,640	\$ 2,126	\$ 225	\$ 3,522	\$206,696
Percentage of total loans	96.36%	.25%	.12%	.43%	.80%	1.03%	.11%	1.70%	100.00%

- (a) Amounts in table represent recorded investment and exclude loans held for sale. Recorded investment in a loan includes the unpaid principal balance plus accrued interest and net accounting adjustments, less any charge-offs. Recorded investment does not include any associated valuation allowance.
- (b) Past due loan amounts exclude purchased impaired loans, even if contractually past due (or if we do not expect to receive payment in full based on the original contractual terms), as we are currently accreting interest income over the expected life of the loans. Past due loan amounts include government insured or guaranteed Residential real estate mortgages totaling \$6 billion and Education and other consumer loans totaling \$4 billion at both December 31, 2016 and December 31, 2015.
- (c) Consumer loans accounted for under the fair value option for which we do not expect to collect substantially all principal and interest are subject to nonaccrual accounting and classification upon meeting any of our nonaccrual policies. Given that these loans are not accounted for at amortized cost, these loans have been excluded from the nonperforming loan population.
- (d) Net of unearned income, net deferred loan fees, unamortized discounts and premiums, and purchase discounts and premiums totaling \$1.3 billion and \$1.4 billion at December 31, 2016 and December 31, 2015, respectively.

Table of Contents

In the normal course of business, we originate or purchase loan products with contractual characteristics that, when concentrated, may increase our exposure as a holder of those loan products. Possible product features that may create a concentration of credit risk would include a high original or updated LTV ratio, terms that may expose the borrower to future increases in repayments above increases in market interest rates, and interest-only loans, among others.

We originate interest-only loans to commercial borrowers. Such credit arrangements are usually designed to match borrower cash flow expectations (e.g., working capital lines, revolving). These products are standard in the financial services industry and product features are considered during the underwriting process to mitigate the increased risk that the interest-only feature may result in borrowers not being able to make interest and principal payments when due. We do not believe that these product features create a concentration of credit risk.

At December 31, 2016, we pledged \$22.0 billion of commercial loans to the Federal Reserve Bank (FRB) and \$60.8 billion of residential real estate and other loans to the Federal Home Loan Bank (FHLB) as collateral for the contingent ability to borrow, if necessary. The comparable amounts at December 31, 2015 were \$20.2 billion and \$56.4 billion, respectively.

Table 38: Nonperforming Assets

Dollars in millions	December 31 2016	December 31 2015
Nonperforming loans		
Total commercial lending	\$ 655	\$ 545
Total consumer lending (a)	1,489	1,581
Total nonperforming loans (b)	2,144	2,126
OREO, foreclosed and other assets	230	299
Total nonperforming assets	\$ 2,374	\$ 2,425
Nonperforming loans to total loans	1.02%	1.03%
Nonperforming assets to total loans,		
OREO, foreclosed and other assets	1.12%	1.17%
Nonperforming assets to total assets	.65%	.68%
Interest on nonperforming loans		
Computed on original terms	\$ 111	\$ 115
Recognized prior to nonperforming status	\$ 21	\$ 22

(a) Excludes most consumer loans and lines of credit not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

(b) The recorded investment of loans collateralized by residential real estate property that are in process of foreclosure was \$4 billion and \$6 billion at December 31, 2016 and December 31, 2015, which included \$2 billion and \$3 billion, respectively, of loans that are government insured/guaranteed.

Nonperforming loans also include certain loans whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulties. In accordance

with applicable accounting guidance, these loans are considered TDRs. See Note 1 Accounting Policies and the TDR section within this Note.

Total nonperforming loans in Table 38 include TDRs of \$1.1 billion at both December 31, 2016 and December 31, 2015. TDRs that are performing, including consumer credit card TDR loans, totaled \$1.1 billion at December 31, 2016 and \$1.2 billion at December 31, 2015, and are excluded from nonperforming loans. Nonperforming TDRs are returned to accrual status and classified as performing after demonstrating a period of at least six months of consecutive performance under the restructured terms. Loans where borrowers have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us and loans to borrowers not currently obligated to make both principal and interest payments under the restructured terms are not returned to accrual status. See the TDRs section of this Note 3 for more information on TDRs.

Additional Asset Quality Indicators

We have two overall portfolio segments – Commercial Lending and Consumer Lending. Each of these two segments comprises multiple loan classes. Classes are characterized by similarities in initial measurement, risk attributes and the manner in which we monitor and assess credit risk. The Commercial Lending segment is composed of the commercial, commercial real estate and equipment lease financing loan classes. The Consumer Lending segment is composed of the home equity, residential real estate, credit card and other consumer loan classes.

Commercial Lending Asset Classes

Commercial Loan Class

For commercial loans, we monitor the performance of the borrower in a disciplined and regular manner based upon the level of credit risk inherent in the loan. To evaluate the level of credit risk, we assign an internal risk rating reflecting the borrower's PD and LGD. This two-dimensional credit risk rating methodology provides granularity in the risk monitoring process on an ongoing basis. These ratings are reviewed and updated, generally at least once per year. Additionally, no less frequently than on an annual basis, we review PD rates related to each rating grade based upon internal historical data. These rates are updated as needed and augmented by market data as deemed necessary. For small balance homogeneous pools of commercial loans, mortgages and leases, we apply statistical modeling to assist in determining the probability of default within these pools. Further, on a periodic basis, we update our LGD estimates associated with each rating grade based upon historical data. The combination of the PD and LGD ratings assigned to commercial loans, capturing both the combination of expectations of default and loss severity in event of default, reflects the relative estimated likelihood of loss at the reporting date. In general, loans with better PD and LGD

Table of Contents

tend to have a lower likelihood of loss compared to loans with worse PD and LGD. The loss amount also considers an estimate of exposure at date of default, which we also periodically update based upon historical data.

Based upon the amount of the lending arrangement and our risk rating assessment, we follow a formal schedule of written periodic review. Quarterly, we conduct formal reviews of a market's or business unit's entire loan portfolio, focusing on those loans which we perceive to be of higher risk, based upon PDs and LGDs, or loans for which credit quality is weakening. If circumstances warrant, it is our practice to review any customer obligation and its level of credit risk more frequently. We attempt to proactively manage our loans by using various procedures that are customized to the risk of a given loan, including ongoing outreach, contact, and assessment of obligor financial conditions, collateral inspection and appraisal.

Commercial Real Estate Loan Class

We manage credit risk associated with our commercial real estate projects and commercial mortgage activities similar to commercial loans by analyzing PD and LGD. Additionally, risks connected with commercial real estate projects and

commercial mortgage activities tend to be correlated to the loan structure and collateral location, project progress and business environment. As a result, these attributes are also monitored and utilized in assessing credit risk.

As with the commercial class, a formal schedule of periodic review is also performed to assess market/geographic risk and business unit/industry risk. Often as a result of these overviews, more in-depth reviews and increased scrutiny are placed on areas of higher risk, including adverse changes in risk ratings, deteriorating operating trends, and/or areas that concern management. These reviews are designed to assess risk and take actions to mitigate our exposure to such risks.

Equipment Lease Financing Loan Class

We manage credit risk associated with our equipment lease financing loan class similar to commercial loans by analyzing PD and LGD.

Based upon the dollar amount of the lease and the level of credit risk, we follow a formal schedule of periodic review. Generally, this occurs quarterly, although we have established practices to review such credit risk more frequently if circumstances warrant. Our review process entails analysis of the following factors: equipment value/residual value, exposure levels, jurisdiction risk, industry risk, guarantor requirements, and regulatory compliance.

Table 39: Commercial Lending Asset Quality Indicators (a)

In millions		Criticized Commercial Loans			Total Loans
		Special Mention (b)	Substandard (c)	Doubtful (d)	
December 31, 2016					
Commercial	\$ 96,231	\$ 1,612	\$ 3,449	\$ 72	\$101,364
Commercial real estate	28,561	98	327	24	29,010
Equipment lease financing	7,395	89	91	6	7,581
Total commercial lending	\$132,187	\$ 1,799	\$ 3,867	\$ 102	\$137,955
December 31, 2015					
Commercial	\$ 93,364	\$ 2,029	\$ 3,124	\$ 91	\$ 98,608
Commercial real estate	26,729	126	603	10	27,468
Equipment lease financing	7,230	87	150	1	7,468
Total commercial lending	\$127,323	\$ 2,242	\$ 3,877	\$ 102	\$133,544

- (a) Loans are classified as "Pass", "Special Mention", "Substandard" and "Doubtful" based on the Regulatory Classification definitions. We use PDs and LGDs to rate commercial loans and apply a split rating classification to certain loans meeting threshold criteria. By assigning a split classification, a loan's exposure amount may be split into more than one classification category in this table.
- (b) Special Mention rated loans have a potential weakness that deserves management's close attention. If left uncorrected, these potential weaknesses may result in deterioration of repayment prospects at some future date. These loans do not expose us to sufficient risk to warrant a more adverse classification at the reporting date.
- (c) Substandard rated loans have a well-defined weakness or weaknesses that jeopardize the collection or liquidation of debt. They are characterized by the distinct possibility that we will sustain some loss if the deficiencies are not corrected.
- (d) Doubtful rated loans possess all the inherent weaknesses of a Substandard loan with the additional characteristics that the weakness makes collection or liquidation in full improbable due to existing facts, conditions, and values.

Consumer Lending Asset Classes

Home Equity and Residential Real Estate Loan Classes

We use several credit quality indicators, including delinquency information, nonperforming loan information, updated credit scores, originated and updated loan-to-value (LTV) ratios, and geography, to monitor and manage credit risk within the home equity and residential real estate loan classes. We evaluate mortgage loan performance by source originators and loan servicers. A summary of asset quality indicators follows:

Delinquency/Delinquency Rates: We monitor trending of delinquency/delinquency rates for home equity and residential real estate loans. See Table 37 for additional information.

Nonperforming Loans: We monitor trending of nonperforming loans for home equity and residential real estate loans. See Table 37 for additional information.

Credit Scores: We use a national third-party provider to update FICO credit scores for home equity loans and lines of credit and residential real estate loans at least quarterly. The updated scores are incorporated into a series of credit management reports, which are utilized to monitor the risk in the loan classes.

LTV (inclusive of combined loan-to-value (CLTV) for first and subordinate lien positions): At least annually, we update the property values of real estate collateral and calculate an updated LTV ratio. For open-end credit lines secured by real estate in regions experiencing significant declines in property values, more frequent valuations may occur. We examine LTV migration and stratify LTV into categories to monitor the risk in the loan classes.

Historically, we used, and we continue to use, a combination of original LTV and updated LTV for internal risk management and reporting purposes (*e.g.*, line management, loss mitigation strategies). In addition to the fact that estimated property values by their nature are estimates, given certain data limitations it is important to note that updated LTVs may be based upon management's assumptions (*e.g.*, if an updated LTV is not provided by the third-party service provider, home price index (HPI) changes will be incorporated in arriving at management's estimate of updated LTV).

Updated LTV is estimated using modeled property values. The related estimates and inputs are based upon an approach that uses a combination of third-party automated valuation models (AVMs), broker price opinions (BPOs), HPI indices, property location, internal and external balance information, origination data and management assumptions. We generally utilize origination lien balances provided by a third-party, where applicable, which do not include an amortization assumption when calculating updated LTV. Accordingly, the results of the calculations do not represent actual appraised loan level collateral or updated LTV based upon lien balances held by others, and as such, are necessarily imprecise and subject to change as we enhance our methodology.

Geography: Geographic concentrations are monitored to evaluate and manage exposures. Loan purchase programs are sensitive to, and focused within, certain regions to manage geographic exposures and associated risks.

A combination of updated FICO scores, originated and updated LTV ratios and geographic location assigned to home equity loans and lines of credit and residential real estate loans is used to monitor the risk in the loan classes. Loans with higher FICO scores and lower LTVs tend to have a lower level of risk. Conversely, loans with lower FICO scores, higher LTVs, and in certain geographic locations tend to have a higher level of risk.

The following table presents asset quality indicators for home equity and residential real estate balances, excluding consumer purchased impaired loans of \$2.8 billion and \$3.4 billion at December 31, 2016 and 2015, respectively, and government insured or guaranteed residential real estate mortgages of \$.8 billion and \$.9 billion at December 31, 2016 and 2015, respectively.

[Table of Contents](#)

Table 40: Asset Quality Indicators for Home Equity and Residential Real Estate Loans – Excluding Purchased Impaired and Government Insured or Guaranteed Loans (a)

December 31, 2016 – in millions	Home Equity		Residential Real Estate	Total
	1st Liens	2nd Liens		
Current estimated LTV ratios				
Greater than or equal to 125% and updated FICO scores:				
Greater than 660	\$ 161	\$ 629	\$ 174	\$ 964
Less than or equal to 660 (b)	32	110	35	177
Missing FICO	1	9	2	12
Greater than or equal to 100% to less than 125% and updated FICO scores:				
Greater than 660	394	1,190	345	1,929
Less than or equal to 660 (b)	66	211	76	353
Missing FICO	3	10	7	20
Greater than or equal to 90% to less than 100% and updated FICO scores:				
Greater than 660	453	1,100	463	2,016
Less than or equal to 660	77	171	78	326
Missing FICO	1	8	6	15
Less than 90% and updated FICO scores:				
Greater than 660	14,047	7,913	11,153	33,113
Less than or equal to 660	1,323	822	586	2,731
Missing FICO	42	55	102	199
Missing LTV and updated FICO scores:				
Greater than 660			1	1
Less than or equal to 660				
Missing FICO				
Total home equity and residential real estate loans	\$16,600	\$12,228	\$ 13,028	\$41,856

December 31, 2015 – in millions	Home Equity		Residential Real Estate	Total
	1st Liens	2nd Liens		
Current estimated LTV ratios				
Greater than or equal to 125% and updated FICO scores:				
Greater than 660	\$ 283	\$ 960	\$ 284	\$ 1,527
Less than or equal to 660 (b)	40	189	68	297
Missing FICO	1	8	5	14
Greater than or equal to 100% to less than 125% and updated FICO scores:				
Greater than 660	646	1,733	564	2,943
Less than or equal to 660 (b)	92	302	102	496
Missing FICO	3	4	8	15
Greater than or equal to 90% to less than 100% and updated FICO scores:				
Greater than 660	698	1,492	615	2,805
Less than or equal to 660	88	226	94	408
Missing FICO	1	3	10	14
Less than 90% and updated FICO scores:				
Greater than 660	13,895	7,808	9,117	30,820
Less than or equal to 660	1,282	923	570	2,775
Missing FICO	31	18	105	154
Total home equity and residential real estate loans	\$17,060	\$13,666	\$ 11,542	\$42,268

(a) Amounts shown represent recorded investment.

(b) Higher risk loans are defined as loans with both an updated FICO score of less than or equal to 660 and an updated LTV greater than or equal to 100%. The following states had the highest percentage of higher risk loans at December 31, 2016: New Jersey 16%, Pennsylvania 14%, Illinois 12%, Ohio 10%, Florida 7%, Maryland 6%, Michigan 4%, and North Carolina 4%. The remainder of the states had lower than 4% of the higher risk loans individually, and collectively they represent approximately 27% of the higher risk loans. The following states had the highest percentage of higher risk loans at December 31, 2015: New Jersey 14%, Pennsylvania 12%, Illinois 11%, Ohio 11%, Florida 7%, Maryland 7% and Michigan 5%. The remainder of the states had lower than 4% of the high risk loans individually, and collectively they represent approximately 33% of the higher risk loans.

Table of Contents

Credit Card and Other Consumer Loan Classes

We monitor a variety of asset quality information in the management of the credit card and other consumer loan classes. Other consumer loan classes include education, automobile, and other secured and unsecured lines and loans. Along with the trending of delinquencies and losses for each class, FICO credit score updates are generally obtained monthly, as well as a variety of credit bureau attributes. Loans with high FICO scores tend to have a lower likelihood of loss. Conversely, loans with low FICO scores tend to have a higher likelihood of loss.

Table 41: Credit Card and Other Consumer Loan Classes Asset Quality Indicators

	Credit Card		Other Consumer (a)	
	Amount	% of Total Loans Using FICO Credit Metric	Amount	% of Total Loans Using FICO Credit Metric
Dollars in millions				
December 31, 2016				
FICO score greater than 719	\$3,244	61%	\$10,247	65%
650 to 719	1,466	28	3,873	25
620 to 649	215	4	552	3
Less than 620	229	4	632	4
No FICO score available or required (b)	128	3	489	3
Total loans using FICO credit metric	5,282	100%	15,793	100%
Consumer loans using other internal credit metrics (a)			6,256	
Total loan balance	\$5,282		\$22,049	
Weighted-average updated FICO score (b)		736		744
December 31, 2015				
FICO score greater than 719	\$2,936	60%	\$ 9,371	65%
650 to 719	1,346	28	3,534	24
620 to 649	202	4	523	4
Less than 620	227	5	604	4
No FICO score available or required (b)	151	3	501	3
Total loans using FICO credit metric	4,862	100%	14,533	100%
Consumer loans using other internal credit metrics (a)			7,213	
Total loan balance	\$4,862		\$21,746	
Weighted-average updated FICO score (b)		734		744

(a) We use updated FICO scores as an asset quality indicator for non-government guaranteed or insured education loans, automobile loans and other secured and unsecured lines and loans. We use internal credit metrics, such as delinquency status, geography or other factors, as an asset quality indicator for government guaranteed or insured education loans and consumer loans to high net worth individuals, as internal credit metrics are more relevant than FICO scores for these types of loans.

(b) Credit card loans and other consumer loans with no FICO score available or required generally refers to new accounts issued to borrowers with limited credit history, accounts for which we cannot obtain an updated FICO score (e.g., recent profile changes), cards issued with a business name, and/or cards secured by collateral. Management proactively assesses the risk and size of this loan portfolio and, when necessary, takes actions to mitigate the credit risk. Weighted-average updated FICO score excludes accounts with no FICO score available or required.

Troubled Debt Restructurings (TDRs)

A TDR is a loan whose terms have been restructured in a manner that grants a concession to a borrower experiencing financial difficulty. TDRs result from our loss mitigation activities, and include rate reductions, principal forgiveness, postponement/reduction of scheduled amortization, and extensions, which are intended to minimize economic loss and to avoid foreclosure or repossession of collateral. Additionally, TDRs also result from borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us. In those situations where principal is forgiven, the amount of such principal forgiveness is immediately charged off.

Some TDRs may not ultimately result in the full collection of principal and interest, as restructured, and result in potential incremental losses. These potential incremental losses have been factored into our overall ALLL estimate. The level of any subsequent defaults will likely be affected by future economic conditions. Once a loan becomes a TDR, it will continue to be reported as a TDR until it is ultimately repaid in full, the collateral is foreclosed upon, or it is fully charged off. We held specific reserves in the ALLL of \$3 billion at both December 31, 2016 and December 31, 2015, for the total TDR portfolio.

Table of Contents

Table 42 quantifies the number of loans that were classified as TDRs as well as the change in the loans' recorded investment as a result of becoming a TDR during the years 2016, 2015 and 2014. Additionally, the table provides information about the types of TDR concessions. The Principal Forgiveness TDR category includes principal forgiveness and accrued interest forgiveness. The Rate Reduction TDR category includes reduced interest rate and interest deferral. The Other TDR category primarily includes consumer borrowers that have been discharged from personal liability through Chapter 7 bankruptcy and have not formally reaffirmed their loan obligations to us, as well as postponement/reduction of scheduled amortization and contractual extensions for both consumer and commercial borrowers.

In some cases, there have been multiple concessions granted on one loan. This is most common within the commercial loan portfolio. When there have been multiple concessions granted in the commercial loan portfolio, the principal forgiveness concession was prioritized for purposes of determining the inclusion in Table 42. Second in priority would be rate reduction. In the event that multiple concessions are granted on a consumer loan, concessions resulting from discharge from personal liability through Chapter 7 bankruptcy without formal affirmation of the loan obligations to us would be prioritized and included in the Other type of concession in Table 42. After that, consumer loan concessions would follow the previously discussed priority of concessions for the commercial loan portfolio.

Table 42: Financial Impact and TDRs by Concession Type (a)

During the year ended December 31, 2016 Dollars in millions	Number of Loans	Pre-TDR Recorded Investment (b)	Post-TDR Recorded Investment (c)			
			Principal Forgiveness	Rate Reduction	Other	Total
Total commercial lending	143	\$ 524	\$ 57	\$ 413		\$470
Total consumer lending	11,262	245	157	76		233
Total TDRs	11,405	\$ 769	\$ 214	\$489		\$703
During the year ended December 31, 2015 Dollars in millions						
Total commercial lending	158	\$ 284	\$ 22	\$ 4	\$198	\$224
Total consumer lending	10,962	311		190	106	296
Total TDRs	11,120	\$ 595	\$ 22	\$ 194	\$304	\$520
During the year ended December 31, 2014 Dollars in millions						
Total commercial lending	210	\$ 363	\$ 37	\$ 22	\$237	\$296
Total consumer lending	12,289	344		135	190	325
Total TDRs	12,499	\$ 707	\$ 37	\$ 157	\$427	\$621

(a) Impact of partial charge-offs at TDR date are included in this table.

(b) Represents the recorded investment of the loans as of the quarter end prior to TDR designation, and excludes immaterial amounts of accrued interest receivable.

(c) Represents the recorded investment of the TDRs as of the end of the quarter in which the TDR occurs, and excludes immaterial amounts of accrued interest receivable.

After a loan is determined to be a TDR, we continue to track its performance under its most recent restructured terms. We consider a TDR to have subsequently defaulted when it becomes 60 days past due after the most recent date the loan was restructured. The recorded investment of loans that were both (i) classified as TDRs or were subsequently modified during each 12-month period preceding January 1, 2016, 2015 and 2014, and (ii) subsequently defaulted during the 12-month period following each of January 1, 2016, 2015 and 2014, totaled \$2 billion, \$1 billion and \$2 billion, respectively.

Table of Contents

Impaired Loans

Impaired loans include commercial and consumer nonperforming loans and TDRs, regardless of nonperforming status. TDRs that were previously recorded at amortized cost and are now classified and accounted for as held for sale are also included. Excluded from impaired loans are nonperforming leases, loans accounted for as held for sale other than the TDRs described in the preceding sentence, loans accounted for under the fair value option, smaller balance homogeneous type loans and purchased impaired loans. We did not recognize any interest income on impaired loans that have not returned to performing status, while they were impaired during the year ended December 31, 2016 and December 31, 2015. The following table provides further detail on impaired loans individually evaluated for impairment and the associated ALLL. Certain commercial and consumer impaired loans do not have a related ALLL as the valuation of these impaired loans exceeded the recorded investment.

Table 43: Impaired Loans

In millions	Unpaid Principal Balance	Recorded Investment	Associated Allowance	Average Recorded Investment (a)
December 31, 2016				
<u>Impaired loans with an associated allowance</u>				
Total commercial lending	\$ 742	\$ 477	\$ 105	\$ 497
Total consumer lending	1,237	1,185	226	1,255
Total impaired loans with an associated allowance	\$1,979	\$ 1,662	\$ 331	\$ 1,752
<u>Impaired loans without an associated allowance</u>				
Total commercial lending	\$ 447	\$ 322		\$ 365
Total consumer lending	982	608		604
Total impaired loans without an associated allowance	\$1,429	\$ 930		\$ 969
Total impaired loans	\$3,408	\$ 2,592	\$ 331	\$ 2,721
December 31, 2015				
<u>Impaired loans with an associated allowance</u>				
Total commercial lending	\$ 696	\$ 467	\$ 119	\$ 503
Total consumer lending	1,389	1,307	276	1,474
Total impaired loans with an associated allowance	\$2,085	\$ 1,774	\$ 395	\$ 1,977
<u>Impaired loans without an associated allowance</u>				
Total commercial lending	\$ 407	\$ 276		\$ 255
Total consumer lending	1,000	610		512
Total impaired loans without an associated allowance	\$1,407	\$ 886		\$ 767
Total impaired loans	\$3,492	\$ 2,660	\$ 395	\$ 2,744

(a) Average recorded investment is for the years ended December 31, 2016 and 2015.

NOTE 4 ALLOWANCES FOR LOAN AND LEASE LOSSES

We maintain the ALLL at levels that we believe to be appropriate to absorb estimated probable credit losses incurred in the portfolios as of the balance sheet date. We use the two main portfolio segments – Commercial Lending and Consumer Lending, and develop and document the ALLL under separate methodologies for each of these portfolio segments. See Note 1 Accounting Policies for a description of the accounting policies for ALLL. A rollforward of the ALLL and associated loan data follows.

[Table of Contents](#)
Table 44: Rollforward of Allowance for Loan and Lease Losses and Associated Loan Data

In millions	Commercial Lending	Consumer Lending	Total
December 31, 2016			
<u>Allowance for Loan and Lease Losses</u>			
January 1	\$ 1,605	\$ 1,122	\$ 2,727
Charge-offs	(363)	(523)	(886)
Recoveries	178	165	343
Net (charge-offs) / recoveries	(185)	(358)	(543)
Provision for credit losses	153	280	433
Net change in allowance for unfunded loan commitments and letters of credit	(39)	(1)	(40)
Net recoveries of purchased impaired loans and other		12	12
December 31	\$ 1,534	\$ 1,055	\$ 2,589
TDRs individually evaluated for impairment	\$ 45	\$ 226	\$ 271
Other loans individually evaluated for impairment	60		60
Loans collectively evaluated for impairment	1,392	546	1,938
Purchased impaired loans	37	283	320
December 31	\$ 1,534	\$ 1,055	\$ 2,589
<u>Loan Portfolio</u>			
TDRs individually evaluated for impairment	\$ 428	\$ 1,793	\$ 2,221
Other loans individually evaluated for impairment	371		371
Loans collectively evaluated for impairment	137,047	67,345	204,392
Fair value option loans (a)		893	893
Purchased impaired loans	109	2,847	2,956
December 31	\$137,955	\$72,878	\$210,833
Portfolio segment ALLL as a percentage of total ALLL	59%	41%	100%
Ratio of the allowance for loan and lease losses to total loans	1.11%	1.45%	1.23%
December 31, 2015			
<u>Allowance for Loan and Lease Losses</u>			
January 1	\$ 1,571	\$ 1,760	\$ 3,331
Charge-offs	(255)	(550)	(805)
Recoveries	240	179	419
Net (charge-offs) / recoveries	(15)	(371)	(386)
Provision for credit losses	55	200	255
Net change in allowance for unfunded loan commitments and letters of credit	(3)	1	(2)
Net write-offs of purchased impaired loans and other (b)	(3)	(468)	(471)
December 31	\$ 1,605	\$ 1,122	\$ 2,727
TDRs individually evaluated for impairment	\$ 43	\$ 276	\$ 319
Other loans individually evaluated for impairment	76		76
Loans collectively evaluated for impairment	1,437	585	2,022
Purchased impaired loans	49	261	310
December 31	\$ 1,605	\$ 1,122	\$ 2,727
<u>Loan Portfolio</u>			
TDRs individually evaluated for impairment	\$ 434	\$ 1,917	\$ 2,351
Other loans individually evaluated for impairment	309		309
Loans collectively evaluated for impairment	132,632	66,977	199,609
Fair value option loans (a)		905	905
Purchased impaired loans	169	3,353	3,522
December 31	\$133,544	\$73,152	\$206,696
Portfolio segment ALLL as a percentage of total ALLL	59%	41%	100%
Ratio of the allowance for loan and lease losses to total loans (b)	1.20%	1.53%	1.32%

Table of Contents

In millions	Commercial Lending	Consumer Lending	Total
December 31, 2014			
<u>Allowance for Loan and Lease Losses</u>			
January 1	\$ 1,547	\$ 2,062	\$ 3,609
Charge-offs	(360)	(661)	(1,021)
Recoveries	305	185	490
Net charge-offs	(55)	(476)	(531)
Provision for credit losses	100	173	273
Net change in allowance for unfunded loan commitments and letters of credit	(18)	1	(17)
Other	(3)		(3)
December 31	\$ 1,571	\$ 1,760	\$ 3,331
TDRs individually evaluated for impairment	\$ 62	\$ 324	\$ 386
Other loans individually evaluated for impairment	77		77
Loans collectively evaluated for impairment	1,353	643	1,996
Purchased impaired loans	79	793	872
December 31	\$ 1,571	\$ 1,760	\$ 3,331
<u>Loan Portfolio</u>			
TDRs individually evaluated for impairment	\$ 542	\$ 2,041	\$ 2,583
Other loans individually evaluated for impairment	309		309
Loans collectively evaluated for impairment	127,207	68,826	196,033
Fair value option loans (a)		1,034	1,034
Purchased impaired loans	310	4,548	4,858
December 31	\$128,368	\$76,449	\$204,817
Portfolio segment ALLL as a percentage of total ALLL	47%	53%	100%
Ratio of the allowance for loan and lease losses to total loans	1.22%	2.30%	1.63%

(a) Loans accounted for under the fair value option are not evaluated for impairment as these loans are accounted for at fair value. Accordingly there is no allowance recorded on these loans.

(b) See Note 1 Accounting Policies in our 2015 Form 10-K for information on our change in derecognition policy effective December 31, 2015 for certain purchased impaired loans.

Net interest income less the provision for credit losses was \$8.0 billion, \$8.0 billion and \$8.3 billion for 2016, 2015 and 2014, respectively.

NOTE 5 INVESTMENT SECURITIES

Table 45: Investment Securities Summary

In millions	Amortized Cost	Unrealized		Fair Value
		Gains	Losses	
December 31, 2016				
SECURITIES AVAILABLE FOR SALE				
Debt securities				
U.S. Treasury and government agencies	\$13,100	\$151	\$ (77)	\$13,174
Residential mortgage-backed				
Agency	26,245	170	(287)	26,128
Non-agency	3,191	227	(52)	3,366
Commercial mortgage-backed				
Agency	2,150	3	(34)	2,119
Non-agency	4,023	29	(27)	4,025
Asset-backed	5,938	52	(22)	5,968
Other debt	4,656	104	(37)	4,723
Total debt securities	59,303	736	(536)	59,503
Corporate stocks and other	603		(2)	601
Total securities available for sale	\$59,906	\$736	\$(538)	\$60,104
SECURITIES HELD TO MATURITY				
Debt securities				
U.S. Treasury and government agencies	\$ 527	\$ 35	\$ (22)	\$ 540
Residential mortgage-backed				
Agency	11,074	68	(161)	10,981
Non-agency	191	7		198
Commercial mortgage-backed				
Agency	903	24		927
Non-agency	567	10		577
Asset-backed	558		(2)	556
Other debt	2,023	76	(12)	2,087
Total securities held to maturity	\$15,843	\$220	\$(197)	\$15,866
December 31, 2015				
SECURITIES AVAILABLE FOR SALE				
Debt securities				
U.S. Treasury and government agencies	\$ 9,764	\$152	\$ (42)	\$ 9,874
Residential mortgage-backed				
Agency	24,698	250	(128)	24,820
Non-agency	3,992	247	(88)	4,151
Commercial mortgage-backed				
Agency	1,917	11	(10)	1,918
Non-agency	4,902	30	(29)	4,903
Asset-backed	5,417	54	(48)	5,423
Other debt	3,989	110	(17)	4,082
Total debt securities	54,679	854	(362)	55,171
Corporate stocks and other	590		(1)	589
Total securities available for sale	\$55,269	\$854	\$(363)	\$55,760

Table of Contents

In millions	Amortized Cost	Unrealized		Fair Value
		Gains	Losses	
SECURITIES HELD TO MATURITY				
Debt securities				
U.S. Treasury and government agencies	\$ 258	\$ 40		\$ 298
Residential mortgage-backed				
Agency	9,552	101	\$ (65)	9,588
Non-agency	233	8		241
Commercial mortgage-backed				
Agency	1,128	40		1,168
Non-agency	722	6	(1)	727
Asset-backed	717		(10)	707
Other debt	2,158	116	(1)	2,273
Total securities held to maturity	\$14,768	\$311	\$ (77)	\$15,002

The fair value of investment securities is impacted by interest rates, credit spreads, market volatility and liquidity conditions. Net unrealized gains and losses in the securities available for sale portfolio are included in Shareholders' equity as Accumulated other comprehensive income or loss, net of tax, unless credit-related. Securities held to maturity are carried at amortized cost. At December 31, 2016, Accumulated other comprehensive income included pretax gains of \$96 million from derivatives that hedged the purchase of investment securities classified as held to maturity. The gains will be accreted into interest income as an adjustment of yield on the securities.

Table 46 presents gross unrealized losses and fair value of debt securities at December 31, 2016 and December 31, 2015. The securities are segregated between investments that have been in a continuous unrealized loss position for less than twelve months and twelve months or more based on the point in time that the fair value declined below the amortized cost basis. The table includes debt securities where a portion of OTTI has been recognized in Accumulated other comprehensive income (loss). The increase in total unrealized losses at December 31, 2016 when compared to December 31, 2015 was due to an increase in market interest rates.

[Table of Contents](#)
Table 46: Gross Unrealized Loss and Fair Value of Debt Securities

In millions	Unrealized loss position less than 12 months		Unrealized loss position 12 months or more		Total	
	Unrealized Loss	Fair Value	Unrealized Loss	Fair Value	Unrealized Loss	Fair Value
December 31, 2016						
Securities Available for Sale						
Debt securities						
U.S. Treasury and government agencies	\$ (57)	\$ 3,108	\$ (20)	\$ 2,028	\$ (77)	\$ 5,136
Residential mortgage-backed						
Agency	(267)	16,942	(20)	922	(287)	17,864
Non-agency	(1)	109	(51)	1,119	(52)	1,228
Commercial mortgage-backed						
Agency	(33)	1,577	(1)	86	(34)	1,663
Non-agency	(14)	880	(13)	987	(27)	1,867
Asset-backed	(5)	1,317	(17)	902	(22)	2,219
Other debt	(33)	1,827	(4)	243	(37)	2,070
Total debt securities available for sale	\$ (410)	\$ 25,760	\$ (126)	\$ 6,287	\$ (536)	\$ 32,047
Securities Held to Maturity						
Debt securities						
U.S. Treasury and government agencies	\$ (22)	\$ 238			\$ (22)	\$ 238
Residential mortgage-backed						
Agency	(153)	8,041	\$ (8)	\$ 161	(161)	8,202
Asset-backed			(2)	451	(2)	451
Other debt	(12)	146	(a)	1	(12)	147
Total debt securities held to maturity	\$ (187)	\$ 8,425	\$ (10)	\$ 613	\$ (197)	\$ 9,038
December 31, 2015						
Securities Available for Sale						
Debt securities						
U.S. Treasury and government agencies	\$ (40)	\$ 5,885	\$ (2)	\$ 120	\$ (42)	\$ 6,005
Residential mortgage-backed						
Agency	(103)	11,799	(25)	1,094	(128)	12,893
Non-agency	(3)	368	(85)	1,527	(88)	1,895
Commercial mortgage-backed						
Agency	(7)	745	(3)	120	(10)	865
Non-agency	(22)	2,310	(7)	807	(29)	3,117
Asset-backed	(30)	3,477	(18)	494	(48)	3,971
Other debt	(11)	1,085	(6)	248	(17)	1,333
Total debt securities available for sale	\$ (216)	\$ 25,669	\$ (146)	\$ 4,410	\$ (362)	\$ 30,079
Securities Held to Maturity						
Debt securities						
Residential mortgage-backed						
Agency	\$ (55)	\$ 4,842	\$ (10)	\$ 269	\$ (65)	\$ 5,111
Commercial mortgage-backed						
Non-agency	(1)	149	(a)	5	(1)	154
Asset-backed	(2)	171	(8)	529	(10)	700
Other debt	(1)	230	(a)	3	(1)	233
Total debt securities held to maturity	\$ (59)	\$ 5,392	\$ (18)	\$ 806	\$ (77)	\$ 6,198

(a) The unrealized loss on these securities was less than \$.5 million.

Table of Contents

Evaluating Investment Securities for Other-than-Temporary Impairments

For the securities in Table 46, as of December 31, 2016 we do not intend to sell and believe we will not be required to sell the securities prior to recovery of the amortized cost basis.

On at least a quarterly basis, we review all debt securities that are in an unrealized loss position for OTTI, as discussed in Note 1 Accounting Policies. For those securities on our balance sheet at December 31, 2016, where during our quarterly security-level impairment assessments we determined losses represented OTTI, we have recorded cumulative credit losses of \$1.1 billion in earnings and accordingly have reduced the amortized cost of our securities. The majority of these cumulative impairment charges related to non-agency residential mortgage-backed and asset-backed securities rated BB or lower. During 2016, 2015 and 2014, the OTTI credit losses recognized in noninterest income and the OTTI noncredit losses recognized in accumulated other comprehensive income (loss), net of tax, on securities were not significant.

Information relating to gross realized securities gains and losses from the sales of securities is set forth in the following table.

Table 47: Gains (Losses) on Sales of Securities Available for Sale

In millions	Proceeds	Gross Gains	Gross Losses	Net Gains	Tax Expense
For the year ended December 31					
2016	\$3,489	\$ 24	\$ (8)	\$ 16	\$ 6
2015	\$6,829	\$ 56	\$ (13)	\$ 43	\$ 15
2014	\$4,480	\$ 33	\$ (29)	\$ 4	\$ 1

The following table presents, by remaining contractual maturity, the amortized cost, fair value and weighted-average yield of debt securities at December 31, 2016.

Table 48: Contractual Maturity of Debt Securities

December 31, 2016 Dollars in millions	1 Year or Less	After 1 Year through 5 Years	After 5 Years through 10 Years	After 10 Years	Total
SECURITIES AVAILABLE FOR SALE					
U.S. Treasury and government agencies	\$ 479	\$ 5,673	\$ 5,778	\$ 1,170	\$13,100
Residential mortgage-backed					
Agency	1	127	740	25,377	26,245
Non-agency		2		3,189	3,191
Commercial mortgage-backed					
Agency	77	157	730	1,186	2,150
Non-agency		111	108	3,804	4,023
Asset-backed	7	2,046	1,716	2,169	5,938
Other debt	228	2,305	661	1,462	4,656
Total debt securities available for sale	\$ 792	\$ 10,421	\$ 9,733	\$38,357	\$59,303
Fair value	\$ 796	\$ 10,463	\$ 9,729	\$38,515	\$59,503
Weighted-average yield, GAAP basis	3.13%	2.11%	2.06%	2.88%	2.61%
SECURITIES HELD TO MATURITY					
U.S. Treasury and government agencies			\$ 108	\$ 419	\$ 527
Residential mortgage-backed					
Agency		\$ 18	458	10,598	11,074
Non-agency				191	191
Commercial mortgage-backed					
Agency	\$ 100	743	5	55	903
Non-agency				567	567
Asset-backed		1	452	105	558
Other debt	14	176	997	836	2,023
Total debt securities held to maturity	\$ 114	\$ 938	\$ 2,020	\$12,771	\$15,843
Fair value	\$ 114	\$ 966	\$ 2,070	\$12,716	\$15,866
Weighted-average yield, GAAP basis	3.69%	3.64%	3.29%	3.23%	3.27%

Table of Contents

Weighted-average yields are based on historical cost with effective yields weighted for the contractual maturity of each security. At December 31, 2016, there were no securities of a single issuer, other than FNMA, that exceeded 10% of Total shareholders' equity. The FNMA investments had a total amortized cost of \$27.1 billion and fair value of \$26.8 billion.

The following table presents the fair value of securities that have been either pledged to or accepted from others to collateralize outstanding borrowings.

Table 49: Fair Value of Securities Pledged and Accepted as Collateral

In millions	December 31 2016	December 31 2015
Pledged to others	\$ 9,493	\$ 9,674
Accepted from others:		
Permitted by contract or custom to sell or repledge	\$ 912	\$ 1,100
Permitted amount repledged to others	\$ 799	\$ 943

The securities pledged to others include positions held in our portfolio of investment securities, trading securities, and securities accepted as collateral from others that we are permitted by contract or custom to sell or repledge, and were used to secure public and trust deposits, repurchase agreements, and for other purposes.

NOTE 6 FAIR VALUE

Fair Value Measurement

We measure certain financial assets and liabilities at fair value. Fair value is defined as the price that would be received to sell an asset or the price that would be paid to transfer a liability on the measurement date, determined using an exit price in the principal or most advantageous market for the asset or liability in an orderly transaction between market participants. The fair value hierarchy established by GAAP requires us to maximize the use of observable inputs when measuring fair value. The three levels of the fair value hierarchy are:

- **Level 1:** Fair value is determined using a quoted price in an active market for identical assets or liabilities. Level 1 assets and liabilities may include debt securities, equity securities and listed derivative contracts that are traded in an active exchange market and certain U.S. Treasury securities that are actively traded in over-the-counter markets.
- **Level 2:** Fair value is estimated using inputs other than quoted prices included within Level 1 that are observable for assets or liabilities, either directly or indirectly. The majority of Level 2 assets and liabilities include debt securities, equity securities and listed derivative contracts with quoted prices that are traded in markets that are not active, and certain

debt and equity securities and over-the-counter derivative contracts whose fair value is determined using a pricing model without significant unobservable inputs.

- **Level 3:** Fair value is estimated using unobservable inputs that are significant to the fair value of the assets or liabilities. Level 3 assets and liabilities include financial instruments whose value is determined using pricing models and discounted cash flow methodologies, or similar techniques for which the significant valuation inputs are not observable and the determination of fair value requires significant management judgment or estimation.

We characterize active markets as those where transaction volumes are sufficient to provide objective pricing information, with reasonably narrow bid/ask spreads and where dealer quotes received do not vary widely and are based on current information. Inactive markets are typically characterized by low transaction volumes, price quotations that vary substantially among market participants or are not based on current information, wide bid/ask spreads, a significant increase in implied liquidity risk premiums, yields, or performance indicators for observed transactions or quoted prices compared to historical periods, a significant decline or absence of a market for new issuance, or any combination of the above factors. We also consider nonperformance risks including credit risk as part of our valuation methodology for all assets and liabilities measured at fair value.

Assets and liabilities measured at fair value, by their nature, result in a higher degree of financial statement volatility. Assets and liabilities classified within Level 3 inherently require the use of various assumptions, estimates and judgments when measuring their fair value. As observable market activity is commonly not available to use when estimating the fair value of Level 3 assets and liabilities, we must estimate fair value using various modeling techniques. These techniques include the use of a variety of inputs/assumptions including credit quality, liquidity, interest rates or other relevant inputs across the entire population of our Level 3 assets and liabilities. Changes in the significant underlying factors or assumptions (either an increase or a decrease) in any of these areas underlying our estimates may result in a significant increase/decrease in the Level 3 fair value measurement of a particular asset and/or liability from period to period.

Any models used to determine fair values or to validate dealer quotes are subject to review and independent testing as part of our model validation and internal control testing processes. Our Model Risk Management Committee reviews significant models on at least an annual basis. In addition, the Valuation Committee approves valuation methodologies and reviews the results of independent valuation reviews and processes for assets and liabilities measured at fair value on a recurring basis.

Assets and Liabilities Measured at Fair Value on a Recurring Basis**Securities Available for Sale and Trading Securities**

Securities accounted for at fair value include both the available for sale and trading portfolios. We primarily use prices obtained from pricing services, dealer quotes, or recent trades to determine the fair value of securities. The majority of securities were priced by third-party vendors. The third-party vendors use a variety of methods when pricing securities that incorporate relevant market data to arrive at an estimate of what a buyer in the marketplace would pay for a security under current market conditions. We monitor and validate the reliability of vendor pricing on an ongoing basis through pricing methodology reviews, including detailed reviews of the assumptions and inputs used by the vendor to price individual securities, and through price validation testing. Securities not priced by one of our pricing vendors may be valued using a dealer quote, which are also subject to price validation testing. Price validation testing is performed independent of the risk-taking function and involves corroborating the prices received from third-party vendors and dealers with prices from another third party or through other sources, such as internal valuations or sales of similar securities. Security prices are also validated through actual cash settlement upon sale of a security.

Securities are classified within the fair value hierarchy after giving consideration to the activity level in the market for the security type and the observability of the inputs used to determine the fair value. When a quoted price in an active market exists for the identical security, this price is used to determine fair value and the security is classified within Level 1 of the hierarchy. Level 1 securities include U.S. Treasury securities and money-market mutual funds. When a quoted price in an active market for the identical security is not available, fair value is estimated using either an alternative market approach, such as a recent trade or matrix pricing, or an income approach, such as a discounted cash flow pricing model. If the inputs to the valuation are based primarily on market observable information, then the security is classified within Level 2 of the hierarchy. Level 2 securities include agency debt securities, agency residential mortgage-backed securities, agency and non-agency commercial mortgage-backed securities, certain non-agency residential mortgage-backed securities, asset-backed securities collateralized by non-mortgage-related consumer loans, municipal securities, and other debt securities. Level 2 securities are predominantly priced by third parties, either a pricing vendor or dealer.

In certain cases where there is limited activity or less transparency around the inputs to the valuation, securities are classified within Level 3 of the hierarchy. Securities classified as Level 3 consist primarily of non-agency residential mortgage-backed and asset-backed securities collateralized by first- and second-lien residential mortgage loans. Fair value

for these securities is primarily estimated using pricing obtained from third-party vendors. In some cases, fair value is estimated using a dealer quote, by reference to prices of securities of a similar vintage and collateral type or by reference to recent sales of similar securities. Market activity for these security types is limited with little price transparency. As a result, these securities are generally valued by the third-party vendor using a discounted cash flow approach that incorporates significant unobservable inputs and observable market activity where available. Significant inputs to the valuation include prepayment projections and credit loss assumptions (default rate and loss severity) and discount rates that are deemed representative of current market conditions. Significant increases (decreases) in any of those assumptions in isolation would result in a significantly lower (higher) fair value measurement.

Certain infrequently traded debt securities within Other debt securities available-for-sale and Trading securities are also classified in Level 3 and are included in the Insignificant Level 3 assets, net of liabilities line item in Table 52. The significant unobservable inputs used to estimate the fair value of these securities include an estimate of expected credit losses and a discount for liquidity risk. These inputs are incorporated into the fair value measurement by either increasing the spread over the benchmark curve or by applying a credit and liquidity discount to the par value of the security. Significant increases (decreases) in credit and/or liquidity risk could result in a significantly lower (higher) fair value estimate.

Residential Mortgage Loans Held for Sale

We account for certain residential mortgage loans originated for sale at fair value on a recurring basis. The election of the fair value option aligns the accounting for the residential mortgages with the related hedges. Residential mortgage loans are valued based on quoted market prices, where available, prices for other traded mortgage loans with similar characteristics, and purchase commitments and bid information received from market participants. The prices are adjusted as necessary to include the embedded servicing value in the loans and to take into consideration the specific characteristics of certain loans that are priced based on the pricing of similar loans. These adjustments represent unobservable inputs to the valuation but are not considered significant given the relative insensitivity of the value to changes in these inputs to the fair value of the loans. Accordingly, the majority of residential mortgage loans held for sale are classified as Level 2.

Commercial Mortgage Loans Held for Sale

We account for certain commercial mortgage loans classified as held for sale in whole loan transactions at fair value. We determine the fair value of commercial mortgage loans held for sale based upon discounted cash flows. Fair value is determined using sale valuation assumptions that management believes a market participant would use in pricing the loans.

Table of Contents

Valuation assumptions may include observable inputs based on the benchmark interest rate swap curves, whole loan sales and agency sales transactions. The significant unobservable inputs are management's assumption of the spread applied to the benchmark rate and the estimated servicing cash flows for loans sold to the agencies with servicing retained. The spread over the benchmark curve includes management's assumptions of the impact of credit and liquidity risk. Significant increases (decreases) in the spread applied to the benchmark would result in a significantly lower (higher) asset value. The wide range of the spread over the benchmark curve is due to the varying risk and underlying property characteristics within our portfolio. Significant increases (decreases) in the estimated servicing cash flows would result in significantly higher (lower) asset value. Based on the significance of unobservable inputs, we classified this portfolio as Level 3.

Loans

Loans accounted for at fair value consist primarily of residential mortgage loans. These loans are generally valued similarly to residential mortgage loans held for sale and are classified as Level 2. We have elected to account for certain home equity lines of credit at fair value. These loans are classified as Level 3. Significant inputs to the valuation of these loans include credit and liquidity discount, cumulative default rate, loss severity and gross discount rate and are deemed representative of current market conditions. Significant increases (decreases) in any of these assumptions would result in a significantly lower (higher) fair value measurement.

Equity Investments

The valuation of direct and indirect private equity investments requires significant management judgment due to the absence of quoted market prices, inherent lack of liquidity and the long-term nature of such investments. Various valuation techniques are used for direct investments, including multiples of adjusted earnings of the entity, independent appraisals, anticipated financing and sale transactions with third parties, or the pricing used to value the entity in a recent financing transaction. A multiple of adjusted earnings calculation is the valuation technique utilized most frequently and is the most significant unobservable input used in such calculation. Significant decreases (increases) in the multiple of earnings could result in a significantly lower (higher) fair value measurement. Direct equity investments are classified as Level 3.

Indirect investments are not redeemable; however, we receive distributions over the life of the partnerships from liquidation of the underlying investments by the investee, which we expect to occur over the next twelve years. We value indirect investments in private equity funds using consensus pricing and the net asset value (NAV) practical expedient as provided in the financial statements that we receive from fund managers. Due to the time lag in our receipt of the financial information and based

on a review of investments and valuation techniques applied, adjustments to the manager-provided value are made when available recent portfolio company information or market information indicates a significant change in value from that provided by the manager of the fund. Indirect investments valued using NAV are not classified in the fair value hierarchy.

Mortgage Servicing Rights (MSRs)

MSRs are carried at fair value on a recurring basis. Assumptions incorporated into the MSRs valuation model reflect management's best estimate of factors that a market participant would use in valuing the MSRs. Although sales of MSRs do occur, MSRs do not trade in an active, open market with readily observable prices so the precise terms and conditions of sales are not available.

Residential MSRs

As a benchmark for the reasonableness of our residential MSRs fair value, we obtained opinions of value from independent brokers. These brokers provided a range (+/-10 bps) based upon their own discounted cash flow calculations of our portfolio that reflect conditions in the secondary market and any recently executed servicing transactions. We compare our internally-developed residential MSRs value to the ranges of values received from the brokers. If our residential MSRs fair value falls outside of the brokers' ranges, management will assess whether a valuation adjustment is warranted. For the periods presented, our residential MSRs value did not fall outside of the brokers' ranges. We consider our residential MSRs value to represent a reasonable estimate of fair value.

Due to the nature of the unobservable valuation inputs, residential MSRs are classified as Level 3. The significant unobservable inputs used in the fair value measurement of residential MSRs are constant prepayment rates and spread over the benchmark curve. Significant increases (decreases) in prepayment rates and spread over the benchmark curve would result in lower (higher) fair market value of residential MSRs.

Commercial MSRs

The fair value of commercial MSRs is estimated by using a discounted cash flow model incorporating unobservable inputs for assumptions such as constant prepayment rates, discount rates and other factors. Due to the nature of the unobservable valuation inputs and the limited availability of market pricing, commercial MSRs are classified as Level 3. Significant increases (decreases) in constant prepayment rates and discount rates would result in significantly lower (higher) commercial MSR value determined based on current market conditions and expectations.

Financial Derivatives

Exchange-traded derivatives are valued using quoted market prices and are classified as Level 1. The majority of derivatives that we enter into are executed over-the-counter and are valued using internal models. These derivatives are

Table of Contents

primarily classified as Level 2 as the readily observable market inputs to these models are validated to external sources such as industry pricing services, or are corroborated through recent trades, dealer quotes, yield curves, implied volatility or other market-related data. Level 2 financial derivatives are primarily estimated using a combination of Eurodollar future prices and observable benchmark interest rate swaps to construct projected discounted cash flows.

Financial derivatives that are priced using significant management judgment or assumptions are classified as Level 3. Unobservable inputs related to interest rate contracts include probability of funding of residential mortgage loan commitments, spread over the benchmark interest rate and the estimated servicing cash flows of commercial mortgage loan commitments, and expected interest rate volatility of interest rate options. Probability of default and loss severity are the significant unobservable inputs used in the valuation of risk participation agreements. The fair values of Level 3 assets and liabilities related to these financial derivatives as of December 31, 2016 and 2015 are included in the Insignificant Level 3 assets, net of liabilities line item in Table 52 of this Note 6.

In connection with the sales of portions of our Visa Class B common shares, we entered into swap agreements with the purchasers of the shares to account for any future risk of converting Class B common shares to Class A common shares and to account for the corresponding change in value to the Class B shares. These adjustments result from resolution of the specified litigation or the changes in the amount in the litigation escrow account funded by Visa as well as from changes in the estimated litigation resolution date (see Note 19 Legal Proceedings). These swaps also require payments calculated by reference to the market price of the Class A common shares and a fixed rate of interest. An increase in the estimated growth rate of the Class A share price or the estimated length of litigation resolution date, or a decrease in the estimated conversion rate, will have a negative impact on the fair value of the swaps and vice versa, through its impact on periodic payments due to the counterparty until the maturity dates of the swaps.

The fair values of our derivatives include a credit valuation adjustment (CVA) to reflect our own and our counterparties' nonperformance risk. Our CVA is computed using new loan pricing and considers externally available bond spreads, in conjunction with internal historical recovery observations.

Other Assets and Liabilities

Other assets held at fair value on a recurring basis primarily include BlackRock Series C Preferred Stock and assets related to PNC's deferred compensation and supplemental incentive savings plans.

We have elected to account for the shares of BlackRock Series C Preferred Stock received in a stock exchange with BlackRock at fair value as these shares economically hedge the BlackRock LTIP liability that is accounted for and reported as a derivative. The fair value of the Series C Preferred Stock is determined using a third-party modeling approach, which includes both observable and unobservable inputs. Due to the significance of unobservable inputs, this security is classified as Level 3. Significant increases (decreases) in the liquidity discount would result in a lower (higher) asset value for the BlackRock Series C Preferred Stock.

The assets related to PNC's deferred compensation and supplemental incentive savings plans primarily consist of a prepaid forward contract referencing an amount of shares of PNC stock, equity mutual funds and fixed income funds, and are valued based on the underlying investments. These assets are valued either by reference to the market price of PNC's stock or by using the quoted market prices for investments other than PNC's stock and are primarily classified in Levels 1 and 2.

All Level 3 other assets and liabilities, excluding the BlackRock Series C Preferred Stock are included in the Insignificant Level 3 assets, net of liabilities line item in Table 52 in this Note 6.

Other Borrowed Funds

Other borrowed funds primarily consist of U.S. Treasury securities sold short classified as Level 1. Other borrowed funds also includes the related liability for certain repurchased loans for which we have elected the fair value option and are classified as either Level 2 or Level 3, consistent with the level classification of the corresponding loans. All Level 3 amounts are included in the Insignificant Level 3 assets, net of liabilities line item in Table 52 in this Note 6.

Table of Contents

The following table summarizes our assets and liabilities measured at fair value on a recurring basis, including instruments for which we have elected the fair value option.

Table 50: Fair Value Measurements – Recurring Basis Summary

In millions	December 31, 2016				December 31, 2015			
	Level 1	Level 2	Level 3	Total Fair Value	Level 1	Level 2	Level 3	Total Fair Value
Assets								
Residential mortgage loans held for sale		\$ 1,008	\$ 2	\$ 1,010		\$ 838	\$ 5	\$ 843
Commercial mortgage loans held for sale			1,400	1,400			641	641
Securities available for sale								
U.S. Treasury and government agencies	\$12,572	602		13,174	\$ 9,267	607		9,874
Residential mortgage-backed								
Agency		26,128		26,128		24,820		24,820
Non-agency		112	3,254	3,366		143	4,008	4,151
Commercial mortgage-backed								
Agency		2,119		2,119		1,918		1,918
Non-agency		4,025		4,025		4,903		4,903
Asset-backed		5,565	403	5,968		4,941	482	5,423
Other debt		4,657	66	4,723		4,037	45	4,082
Total debt securities	12,572	43,208	3,723	59,503	9,267	41,369	4,535	55,171
Corporate stocks and other	541	60		601	527	62		589
Total securities available for sale	13,113	43,268	3,723	60,104	9,794	41,431	4,535	55,760
Loans		558	335	893		565	340	905
Equity investments (a)			1,331	1,381			1,098	1,445
Residential mortgage servicing rights			1,182	1,182			1,063	1,063
Commercial mortgage servicing rights			576	576			526	526
Trading securities (b)	1,458	1,169	2	2,629	996	727	3	1,726
Financial derivatives (b) (c)	10	4,566	40	4,616		4,910	31	4,941
Other	266	312	239	817	254	336	364	954
Total assets	\$14,847	\$50,881	\$8,830	\$74,608	\$11,044	\$48,807	\$8,606	\$68,804
Liabilities								
Other borrowed funds	\$ 799	\$ 161	\$ 10	\$ 970	\$ 960	\$ 108	\$ 12	\$ 1,080
Financial derivatives (c) (d)	1	3,424	414	3,839	1	3,328	473	3,802
Other liabilities			9	9			10	10
Total liabilities	\$ 800	\$ 3,585	\$ 433	\$ 4,818	\$ 961	\$ 3,436	\$ 495	\$ 4,892

- (a) Certain investments that are measured at fair value using the NAV per share (or its equivalent) practical expedient have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the Consolidated Balance Sheet.
- (b) Included in Other assets on the Consolidated Balance Sheet.
- (c) Amounts at December 31, 2016 and December 31, 2015, are presented gross and are not reduced by the impact of legally enforceable master netting agreements that allow us to net positive and negative positions and cash collateral held or placed with the same counterparty. See Note 13 Financial Derivatives for additional information related to derivative offsetting.
- (d) Included in Other liabilities on the Consolidated Balance Sheet.

Table of Contents

Reconciliations of assets and liabilities measured at fair value on a recurring basis using Level 3 inputs for 2016 and 2015 follow.

Table 51: Reconciliation of Level 3 Assets and Liabilities

Year Ended December 31, 2016

Level 3 Instruments Only In millions	Total realized / unrealized gains or losses for the period (a)										Unrealized gains / losses on assets and liabilities held on Consolidated Balance Sheet at Dec. 31, 2016 (a) (c)
	Fair Value Dec. 31, 2015	Included in Earnings	Included in Other comprehensive income	Purchases	Sales	Issuances	Settlements	Transfers into Level 3	Transfers out of Level 3 (b)	Fair Value Dec. 31, 2016	
Assets											
Residential mortgage loans held for sale	\$ 5			\$ 10	\$ (3)			\$ 10	\$ (20)	\$ 2	
Commercial mortgage loans held for sale	641	\$ 79			(3,810)	\$ 4,515	\$ (25)			1,400	\$ (3)
Securities available for sale											
Residential mortgage-backed non-agency	4,008	75	\$ 16		(60)		(785)			3,254	(2)
Asset-backed	482	13	(3)				(89)			403	
Other debt	45	1	28	12	(17)		(3)	2	(2)	66	
Total securities available for sale	4,535	89	41	12	(77)		(877)	2	(2)	3,723	(2)
Loans	340	8		126	(22)		(78)	15	(54)	335	2
Equity investments	1,098	148		269	(418)			235 (d)	(1)	1,331	127
Residential mortgage servicing rights	1,063	37		188		62	(168)			1,182	39
Commercial mortgage servicing rights	526	45		36		61	(92)			576	45
Trading securities	3						(1)			2	
Financial derivatives	31	115		2			(108)			40	102
Other assets	364	15	(2)				(138)			239	13
Total assets	\$8,606	\$ 536	\$ 39	\$ 643	\$ (4,330)	\$ 4,638	\$ (1,487)	\$ 262	\$ (77)	\$ 8,830	\$ 323
Liabilities											
Other borrowed funds	\$ 12					\$ 87	\$ (89)			\$ 10	
Financial derivatives	473	\$ 127			\$ 4		(190)			414	\$ 129
Other liabilities	10	(9)				132	(124)			9	
Total liabilities	\$ 495	\$ 118			\$ 4	\$ 219	\$ (403)			\$ 433	\$ 129
Net gains (losses)		\$ 418 (e)									\$ 194 (f)

(continued on following page)

Table of Contents

(continued from previous page)

Year Ended December 31, 2015

Level 3 Instruments Only In millions	Total realized / unrealized gains or losses for the period (a)										Unrealized gains / losses on assets and liabilities held on Consolidated Balance Sheet at Dec. 31, 2015 (a) (c)
	Fair Value Dec. 31, 2014	Included in Earnings	Included in Other comprehensive income	Purchases	Sales	Issuances	Settlements	Transfers into Level 3	Transfers out of Level 3 (b)	Fair Value Dec. 31, 2015	
Assets											
Residential mortgage loans held for sale	\$ 6	\$ 1		\$ 25	\$ (4)			\$ 6	\$ (29)	\$ 5	\$ 1
Commercial mortgage loans held for sale	893	76			(4,455)	\$ 4,163	\$ (36)			641	(5)
Securities available for sale											
Residential mortgage- backed non-agency	4,798	114	\$ (58)				(846)			4,008	(2)
Commercial mortgage- backed non-agency		8					(8)				
Asset-backed	563	20					(101)			482	(2)
Other debt	164	2	(2)	13	(7)		(125)			45	
Total securities available for sale	5,525	144	(60)	13	(7)		(1,080)			4,535	(4)
Loans	397	23		114	(26)		(122)	25	(71)	340	12
Equity investments	1,152	120		274	(448)					1,098	86
Residential mortgage servicing rights	845	2		316		78	(178)			1,063	5
Commercial mortgage servicing rights	506	(9)		55		63	(89)			526	(10)
Trading securities	32						(29)			3	
Financial derivatives	42	135		3			(149)			31	126
Other assets	390	(18)			(7)		(1)			364	(18)
Total assets	\$ 9,788	\$ 474	\$ (60)	\$ 800	\$ (4,947)	\$ 4,304	\$ (1,684)	\$ 31	\$ (100)	\$ 8,606	\$ 193
Liabilities											
Other borrowed funds	\$ 181	\$ (3)				\$ 92	\$ (258)			\$ 12	
Financial derivatives	526	22			\$ 1		(76)			473	\$ 4
Other liabilities	9	1								10	
Total liabilities	\$ 716	\$ 20			\$ 1	\$ 92	\$ (334)			\$ 495	\$ 4
Net gains (losses)		\$ 454 (e)									\$ 189 (f)

(a) Losses for assets are bracketed while losses for liabilities are not.

(b) Transfers out of Level 3 primarily reflect the reclassification of residential mortgage loans held for sale to held for investment and the transfer of residential mortgage loans to OREO.

(c) The amount of the total gains or losses for the period included in earnings that is attributable to the change in unrealized gains or losses related to those assets and liabilities held at the end of the reporting period.

(d) Reflects transfers into Level 3 associated with a change in valuation methodology.

(e) Net gains (losses) realized and unrealized included in earnings related to Level 3 assets and liabilities included amortization and accretion. The amortization and accretion amounts were included in Interest income on the Consolidated Income Statement and the remaining net gains (losses) realized and unrealized were included in Noninterest income on the Consolidated Income Statement.

(f) Net unrealized gains (losses) related to assets and liabilities held at the end of the reporting period were included in Noninterest income on the Consolidated Income Statement.

An instrument's categorization within the hierarchy is based on the lowest level of input that is significant to the fair value measurement. Changes from one quarter to the next related to the observability of inputs to a fair value measurement may result in a reclassification (transfer) of assets or liabilities between hierarchy levels. Our policy is to recognize transfers in and transfers out as of the end of the reporting period.

Table of Contents

Quantitative information about the significant unobservable inputs within Level 3 recurring assets and liabilities follows.

Table 52: Fair Value Measurements – Recurring Quantitative Information

December 31, 2016

Level 3 Instruments Only Dollars in millions	Fair Value	Valuation Techniques	Unobservable Inputs	Range (Weighted Average)
Commercial mortgage loans held for sale	\$ 1,400	Discounted cash flow	Spread over the benchmark curve (a) Estimated servicing cash flows	42bps-1,725bps (362bps) 0.0%-7.3% (1.5%)
Residential mortgage-backed non-agency securities	3,254	Priced by a third-party vendor using a discounted cash flow pricing model	Constant prepayment rate (CPR) Constant default rate (CDR) Loss severity Spread over the benchmark curve (a)	1.0%-24.2% (7.2%) 0.0%-16.7% (5.3%) 10.0%-98.5% (53.5%) 236bps weighted average
Asset-backed securities	403	Priced by a third-party vendor using a discounted cash flow pricing model	Constant prepayment rate (CPR) Constant default rate (CDR) Loss severity Spread over the benchmark curve (a)	1.0%-16.0% (6.4%) 2.0%-13.9% (6.6%) 24.2%-100.0% (77.3%) 278bps weighted average
Loans	141	Consensus pricing (b)	Cumulative default rate Loss severity Discount rate	11.0%-100.0% (86.9%) 0.0%-100.0% (22.9%) 4.7%-6.7% (5.1%)
	116	Discounted cash flow	Loss severity Discount rate	8.0% weighted average 4.2% weighted average
	78	Consensus pricing (b)	Credit and Liquidity discount	0.0%-99.0% (57.9%)
Equity investments	1,331	Multiple of adjusted earnings Consensus pricing (b)	Multiple of earnings Liquidity discount	4.5x-12.0x (7.8x) 0.0%-40.0%
Residential mortgage servicing rights	1,182	Discounted cash flow	Constant prepayment rate (CPR) Spread over the benchmark curve (a)	0.0%-36.0% (9.4%) 341bps-1,913bps (850bps)
Commercial mortgage servicing rights	576	Discounted cash flow	Constant prepayment rate (CPR) Discount rate	7.5%-43.4% (8.6%) 3.5%-7.6% (7.5%)
Other assets – BlackRock Series C Preferred Stock	232	Consensus pricing (b)	Liquidity discount	15.0%-25.0% (20.0%)
Financial derivatives – BlackRock LTIP	(232)	Consensus pricing (b)	Liquidity discount	15.0%-25.0% (20.0%)
Financial derivatives – Swaps related to sales of certain Visa Class B common shares	(164)	Discounted cash flow	Estimated conversion factor of Class B shares into Class A shares Estimated growth rate of Visa Class A share price Estimated length of litigation resolution date	164.4% weighted average 14.0% Q2 2019
Insignificant Level 3 assets, net of liabilities (c)	80			
Total Level 3 assets, net of liabilities (d)	\$ 8,397			

(continued on following page)

Table of Contents

(continued from previous page)

December 31, 2015

Level 3 Instruments Only Dollars in millions	Fair Value	Valuation Techniques	Unobservable Inputs	Range (Weighted Average)
Commercial mortgage loans held for sale	\$ 641	Discounted cash flow	Spread over the benchmark curve (a) Estimated servicing cash flows	85bps-4,270bps (547bps) 0.0%-7.0% (0.9%)
Residential mortgage-backed non-agency securities	4,008	Priced by a third-party vendor using a discounted cash flow pricing model	Constant prepayment rate (CPR) Constant default rate (CDR) Loss severity Spread over the benchmark curve (a)	1.0%-24.2% (7.0%) 0.0%-16.7% (5.4%) 10.0%-98.5% (53.3%) 241bps weighted average
Asset-backed securities	482	Priced by a third-party vendor using a discounted cash flow pricing model	Constant prepayment rate (CPR) Constant default rate (CDR) Loss severity Spread over the benchmark curve (a)	1.0%-14.0% (6.3%) 1.7%-13.9% (6.8%) 24.2%-100.0% (77.5%) 324bps weighted average
Loans	123	Consensus pricing (b)	Cumulative default rate Loss severity Discount rate	2.0%-100.0% (85.1%) 0.0%-100.0% (27.3%) 4.9%-7.0% (5.2%)
	116	Discounted cash flow	Loss severity Discount rate	8.0% weighted average 3.9% weighted average
	101	Consensus pricing (b)	Credit and Liquidity discount	26.0%-99.0% (54.0%)
Equity investments	1,098	Multiple of adjusted earnings	Multiple of earnings	4.2x-14.1x (7.6x)
Residential mortgage servicing rights	1,063	Discounted cash flow	Constant prepayment rate (CPR) Spread over the benchmark curve (a)	0.3%-46.5% (10.6%) 559bps-1,883bps (893bps)
Commercial mortgage servicing rights	526	Discounted cash flow	Constant prepayment rate (CPR) Discount rate	3.9%-26.5% (5.7%) 2.6%-7.7% (7.5%)
Other assets – BlackRock Series C Preferred Stock	357	Consensus pricing (b)	Liquidity discount	20.0%
Financial derivatives – BlackRock LTIP	(357)	Consensus pricing (b)	Liquidity discount	20.0%
Financial derivatives – Swaps related to sales of certain Visa Class B common shares	(104)	Discounted cash flow	Estimated conversion factor of Class B shares into Class A shares Estimated growth rate of Visa Class A share price	164.3% weighted average 16.3%
Insignificant Level 3 assets, net of liabilities (c)	57			
Total Level 3 assets, net of liabilities (d)	\$ 8,111			

(a) The assumed yield spread over the benchmark curve for each instrument is generally intended to incorporate non-interest-rate risks, such as credit and liquidity risks.

(b) Consensus pricing refers to fair value estimates that are generally internally developed using information such as dealer quotes or other third-party provided valuations or comparable asset prices.

(c) Represents the aggregate amount of Level 3 assets and liabilities measured at fair value on a recurring basis that are individually and in the aggregate insignificant. The amount includes certain financial derivative assets and liabilities, trading securities, state and municipal and other debt securities, residential mortgage loans held for sale, other assets, other borrowed funds and other liabilities.

(d) Consisted of total Level 3 assets of \$8.8 billion and total Level 3 liabilities of \$4 billion as of December 31, 2016 and \$8.6 billion and \$5 billion as of December 31, 2015, respectively.

Financial Assets Accounted for at Fair Value on a Nonrecurring Basis

We may be required to measure certain financial assets at fair value on a nonrecurring basis. These adjustments to fair value usually result from the application of lower of amortized cost or fair value accounting or write-downs of individual assets due to impairment and are included in Table 53 and Table 54.

Nonaccrual Loans

Nonaccrual loans represent the fair value of those loans which have been adjusted due to impairment. The impairment is primarily based on the appraised value of the collateral or LGD percentage. The LGD percentage represents the amount that we expect to lose in the event a borrower defaults on an

obligation and is used to determine the weighted average loss severity of the nonaccrual loans.

Appraisals are obtained by licensed or certified appraisers at least annually and more recently in certain instances. All third-party appraisals are reviewed and any adjustments to the initial appraisal are incorporated into the final issued appraisal report. In instances where an appraisal is not obtained, collateral value is determined consistent with external third-party appraisal standards by an internal person independent of the asset manager. If an appraisal is outdated due to changed project or market conditions, or if the net book value is utilized, management uses an LGD percentage.

Table of Contents

OREO and Foreclosed Assets

The carrying value of OREO and foreclosed assets includes valuation adjustments recorded subsequent to the transfer to OREO and foreclosed assets. Valuation adjustments are based on the fair value less cost to sell of the property. Fair value is based on appraised value or sales price and the appraisal process for OREO and foreclosed properties is the same as described above for nonaccrual loans.

Insignificant Assets

Insignificant assets represent the aggregate amount of assets measured at fair value on a nonrecurring basis that are individually and in the aggregate insignificant. Long-lived assets held for sale and certain equity investments are included in insignificant assets and are classified as Level 3.

Table 53: Fair Value Measurements – Nonrecurring

In millions	Fair Value	
	December 31 2016	December 31 2015
Assets (a)		
Nonaccrual loans	\$ 187	\$ 30
OREO and foreclosed assets	107	137
Insignificant assets	19	28
Total assets	\$ 313	\$ 195

Year ended December 31 In millions	Gains (Losses)		
	2016	2015	2014
Assets (a)			
Nonaccrual loans	\$(106)	\$(44)	\$(19)
OREO and foreclosed assets	(16)	(18)	(19)
Insignificant assets	(17)	(23)	(16)
Total assets	\$(139)	\$(85)	\$(54)

(a) All Level 3 as of December 31, 2016 and 2015.

Quantitative information about the significant unobservable inputs within Level 3 nonrecurring assets follows.

Table 54: Fair Value Measurements – Nonrecurring Quantitative Information

Level 3 Instruments Only Dollars in millions	Fair Value	Valuation Techniques	Unobservable Inputs	Range (Weighted Average)
December 31, 2016				
Assets				
Nonaccrual loans	\$ 112	LGD percentage	Loss severity	6.0%-77.1% (31.3%)
	75	Fair value of property or collateral	Appraised value/sales price	Not meaningful
OREO and foreclosed assets	107	Fair value of property or collateral	Appraised value/sales price	Not meaningful
Insignificant assets	19			
Total assets	\$ 313			
December 31, 2015				
Assets				
Nonaccrual loans	\$ 20	LGD percentage	Loss severity	8.1%-73.3% (58.6%)
	10	Fair value of property or collateral	Appraised value/sales price	Not meaningful
OREO and foreclosed assets	137	Fair value of property or collateral	Appraised value/sales price	Not meaningful
Insignificant assets	28			
Total assets	\$ 195			

Table of Contents

Financial Instruments Accounted for under Fair Value Option

We elect the fair value option to account for certain financial instruments. For more information on these financial instruments for which the fair value option election has been made, please refer to the Fair Value Measurement section of this Note 6. These financial instruments are initially measured at fair value, gains and losses from initial measurement and any changes in fair value are subsequently recognized in earnings.

Interest income related to changes in the fair values of these financial instruments is recorded on the Consolidated Income Statement in Other interest income, except for certain Residential mortgage loans, for which income is also recorded in Loan interest income. Changes in value on the prepaid forward contract included in Other Assets is reported in Noninterest expense and interest expense on the Other borrowed funds is reported in Borrowed funds interest expense.

Fair values and aggregate unpaid principal balances of items for which we elected the fair value option follow.

Table 55: Fair Value Option – Fair Value and Principal Balances

In millions	Fair Value	Aggregate Unpaid Principal Balance	Difference
December 31, 2016			
Assets			
Residential mortgage loans held for sale			
Performing loans	\$ 1,000	\$ 988	\$ 12
Accruing loans 90 days or more past due	4	4	
Nonaccrual loans	6	6	
Total	1,010	998	12
Commercial mortgage loans held for sale (a)			
Performing loans	1,395	1,412	(17)
Nonaccrual loans	5	9	(4)
Total	1,400	1,421	(21)
Residential mortgage loans			
Performing loans	247	289	(42)
Accruing loans 90 days or more past due	427	428	(1)
Nonaccrual loans	219	346	(127)
Total	893	1,063	(170)
Other assets	293	288	5
Liabilities			
Other borrowed funds	\$ 81	\$ 82	\$ (1)
December 31, 2015			
Assets			
Residential mortgage loans held for sale			
Performing loans	\$ 832	\$ 804	\$ 28
Accruing loans 90 days or more past due	4	4	
Nonaccrual loans	7	8	(1)
Total	843	816	27
Commercial mortgage loans held for sale (a)			
Performing loans	639	659	(20)
Nonaccrual loans	2	3	(1)
Total	641	662	(21)
Residential mortgage loans			
Performing loans	204	260	(56)
Accruing loans 90 days or more past due	475	478	(3)
Nonaccrual loans	226	361	(135)
Total	905	1,099	(194)
Other assets	301	292	9
Liabilities			
Other borrowed funds	\$ 93	\$ 95	\$ (2)

(a) There were no accruing loans 90 days or more past due within this category at December 31, 2016 or December 31, 2015.

Table of Contents

The changes in fair value for items for which we elected the fair value option and are included in Noninterest income and Noninterest expense on the Consolidated Income Statement are as follows.

Table 56: Fair Value Option – Changes in Fair Value (a)

Year ended December 31 In millions	Gains (Losses)		
	2016	2015	2014
Assets			
Residential mortgage loans held for sale	\$152	\$152	\$212
Commercial mortgage loans held for sale	\$ 76	\$ 96	\$ 50
Residential mortgage loans	\$ 30	\$ 43	\$157
Other assets	\$ 50	\$ (8)	\$ 42
Liabilities			
Other borrowed funds		\$ 4	\$ (5)

(a) The impact on earnings of offsetting hedged items or hedging instruments is not reflected in these amounts.

Additional Fair Value Information Related to Financial Instruments Not Recorded at Fair Value

This section presents fair value information for all other financial instruments that are not recorded on the consolidated balance sheet at fair value. We used the following methods and assumptions to estimate the fair value amounts for these financial instruments.

Cash and Due from Banks and Interest-earning Deposits with Banks

Due to their short-term nature, the carrying amounts for Cash and Due from Banks and Interest-earning Deposits with Banks reported on our Consolidated Balance Sheet approximate fair value.

Securities Held to Maturity

We primarily use prices obtained from pricing services, dealer quotes or recent trades to determine the fair value of securities. Refer to the Fair Value Measurement section of this Note 6 for additional information relating to our pricing processes and procedures.

Net Loans

Fair values are estimated based on the discounted value of expected net cash flows incorporating assumptions about prepayment rates, net credit losses and servicing fees. Nonaccrual loans are valued at their estimated recovery value. Loans are presented net of the ALLL.

Other Assets

Other assets includes accrued interest receivable, cash collateral, federal funds sold and resale agreements, equity investments carried at cost, certain loans held for sale, and FHLB and FRB stock. The aggregate carrying value of our FHLB and FRB stock was \$1.7 billion at December 31, 2016 and \$1.8 billion at December 31, 2015, which approximated fair value at each date.

Deposits

For deposits with no defined maturity, such as noninterest-bearing and interest-bearing demand and interest-bearing money market and savings deposits, carrying values approximate fair values. For time deposits, fair values are estimated by discounting contractual cash flows using current market rates for instruments with similar maturities.

Borrowed Funds

For short-term borrowings, including Federal funds purchased, commercial paper, repurchase agreements, and certain other short-term borrowings and payables, carrying values approximated fair values. For long-term borrowed funds, quoted market prices are used, when available, to estimate fair value. When quoted market prices are not available, fair value is estimated based on current market interest rates and credit spreads for debt with similar terms and maturities.

Unfunded Loan Commitments and Letters of Credit

The fair value of unfunded loan commitments and letters of credit is determined from a market participant's view including the impact of changes in interest rates and credit. Because our obligation on substantially all unfunded loan commitments and letters of credit varies with changes in interest rates, these instruments are subject to little fluctuation in fair value due to changes in interest rates. We establish a liability on these facilities related to the creditworthiness of our counterparty.

Other Liabilities

Other liabilities includes interest-bearing cash collateral held related to derivatives and other accrued liabilities. Due to its short term nature, the carrying value of Other liabilities reported on our Consolidated Balance Sheet approximates fair value.

Table of Contents

The carrying amounts and estimated fair values, as well as the level within the fair value hierarchy, of these financial instruments as of December 31, 2016 and December 31, 2015 are as follows.

Table 57: Additional Fair Value Information Related to Other Financial Instruments

In millions	Carrying Amount	Fair Value			
		Total	Level 1	Level 2	Level 3
December 31, 2016					
Assets					
Cash and due from banks	\$ 4,879	\$ 4,879	\$4,879		
Interest-earning deposits with banks	25,711	25,711		\$ 25,711	
Securities held to maturity	15,843	15,866	540	15,208	\$ 118
Net loans (excludes leases)	199,766	201,863			201,863
Other assets	4,793	5,243		4,666	577
Total assets	\$250,992	\$253,562	\$5,419	\$ 45,585	\$202,558
Liabilities					
Deposits	\$257,164	\$257,038		\$257,038	
Borrowed funds	51,736	52,322		50,941	\$ 1,381
Unfunded loan commitments and letters of credit	301	301			301
Other liabilities	417	417		417	
Total liabilities	\$309,618	\$310,078		\$308,396	\$ 1,682
December 31, 2015					
Assets					
Cash and due from banks	\$ 4,065	\$ 4,065	\$4,065		
Interest-earning deposits with banks	30,546	30,546		\$ 30,546	
Securities held to maturity	14,768	15,002	298	14,698	\$ 6
Net loans (excludes leases)	195,579	197,611			197,611
Other assets	4,286	4,877		4,221	656
Total assets	\$249,244	\$252,101	\$4,363	\$ 49,465	\$198,273
Liabilities					
Deposits	\$249,002	\$248,963		\$248,963	
Borrowed funds	53,452	53,693		52,269	\$ 1,424
Unfunded loan commitments and letters of credit	245	245			245
Other liabilities	309	309		309	
Total liabilities	\$303,008	\$303,210		\$301,541	\$ 1,669

The aggregate fair value in Table 57 represents only a portion of the total market value of our total assets and liabilities as, in accordance with the guidance related to fair values about financial instruments, we exclude the following:

- financial instruments recorded at fair value on a recurring basis (as they are disclosed in Table 50),
- investments accounted for under the equity method,
- real and personal property,
- lease financing,
- loan customer relationships,
- deposit customer intangibles,
- mortgage servicing rights,
- retail branch networks,
- fee-based businesses, such as asset management and brokerage, and
- trademarks and brand names.

NOTE 7 GOODWILL AND MORTGAGE SERVICING RIGHTS

Assets and liabilities of acquired entities are recorded at estimated fair value as of the acquisition date.

Goodwill

Allocations of Goodwill by business segment during 2016, 2015 and 2014 follow:

Table 58: Goodwill by Business Segment (a)

In millions	Retail Banking	Corporate & Institutional Banking	Asset Management Group	Total
Goodwill	\$5,795	\$ 3,244	\$ 64	\$9,103

(a) The Residential Mortgage Banking, BlackRock and Non-Strategic Assets Portfolio business segments did not have any goodwill allocated to them during 2016, 2015 and 2014.

We conduct a goodwill impairment test on our reporting units at least annually, in the fourth quarter, or more frequently if events occur or circumstances have changed significantly from the annual test date. The fair value of our reporting units with goodwill is determined by using discounted cash flow and market comparability methodologies. Based on the results of our analysis, there were no impairment charges related to goodwill in 2016, 2015 or 2014.

Mortgage Servicing Rights

We recognize the right to service mortgage loans for others when we recognize it as an intangible asset and the servicing income we receive is more than adequate compensation. MSR are purchased or originated when loans are sold with servicing retained. MSR totaled \$1.8 billion and \$1.6 billion at December 31, 2016 and December 31, 2015, respectively, and consisted of loan servicing contracts for commercial and residential mortgages measured at fair value.

Commercial Mortgage Servicing Rights

We recognize gains/(losses) on changes in the fair value of commercial MSR. Commercial MSR are subject to declines in value from actual or expected prepayment of the underlying loans and defaults as well as market driven changes in interest rates. We manage this risk by economically hedging the fair value of commercial MSR with securities and derivative instruments which are expected to increase (or decrease) in value when the value of commercial MSR declines (or increases).

The fair value of commercial MSR is estimated by using a discounted cash flow model incorporating inputs for assumptions as to constant prepayment rates, discount rates and other factors determined based on current market conditions and expectations.

Changes in the commercial MSR follow:

Table 59: Commercial Mortgage Servicing Rights

In millions	2016	2015	2014
January 1	\$ 526	\$ 506	\$ 552
Additions:			
From loans sold with servicing retained	61	63	53
Purchases	36	55	43
Changes in fair value due to:			
Time and payoffs (a)	(92)	(89)	(89)
Other (b)	45	(9)	(53)
December 31	\$ 576	\$ 526	\$ 506
Related unpaid principal balance at			
December 31	\$143,139	\$145,823	\$143,738
Servicing advances at December 31	\$ 265	\$ 251	\$ 299

(a) Represents decrease in MSR value due to passage of time, including the impact from both regularly scheduled loan principal payments and loans that were paid down or paid off during the period.

(b) Represents MSR value changes resulting primarily from market-driven changes in interest rates.

Residential Mortgage Servicing Rights

Residential MSR are subject to declines in value from actual or expected prepayment of the underlying loans and defaults as well as market driven changes in interest rates. We manage this risk by economically hedging the fair value of residential MSR with securities and derivative instruments which are expected to increase (or decrease) in value when the value of residential MSR declines (or increases).

The fair value of residential MSR is estimated by using a discounted cash flow valuation model which calculates the present value of estimated future net servicing cash flows, taking into consideration actual and expected mortgage loan prepayment rates, discount rates, servicing costs, and other economic factors which are determined based on current market conditions.

Table of Contents

Changes in the residential MSRs follow:

Table 60: Residential Mortgage Servicing Rights

In millions	2016	2015	2014
January 1	\$ 1,063	\$ 845	\$ 1,087
Additions:			
From loans sold with servicing retained	62	78	85
Purchases	188	316	45
Changes in fair value due to:			
Time and payoffs (a)	(168)	(178)	(134)
Other (b)	37	2	(238)
December 31	\$ 1,182	\$ 1,063	\$ 845
Unpaid principal balance of loans serviced for others at December 31	\$125,381	\$123,466	\$108,010
Servicing advances at December 31	\$ 302	\$ 411	\$ 501

(a) Represents decrease in MSR value due to passage of time, including the impact from both regularly scheduled loan principal payments and loans that were paid down or paid off during the period.

(b) Represents MSR value changes resulting primarily from market-driven changes in interest rates.

Sensitivity Analysis

The fair value of commercial and residential MSRs and significant inputs to the valuation models as of December 31, 2016 are shown in Tables 61 and 62. The expected and actual rates of mortgage loan prepayments are significant factors driving the fair value. Management uses both internal proprietary models and a third-party model to estimate future commercial mortgage loan prepayments and a third-party model to estimate future residential mortgage loan prepayments. These models have been refined based on current market conditions and management judgment. Future interest rates are another important factor in the valuation of MSRs. Management utilizes market implied forward interest rates to estimate the future direction of mortgage and discount rates. The forward rates utilized are derived from the current yield curve for U.S. dollar interest rate swaps and are consistent with pricing of capital markets instruments. Changes in the shape and slope of the forward curve in future periods may result in volatility in the fair value estimate.

A sensitivity analysis of the hypothetical effect on the fair value of MSRs to adverse changes in key assumptions is presented in Tables 61 and 62. These sensitivities do not include the impact of the related hedging activities. Changes in fair value generally cannot be extrapolated because the relationship of the change in the assumption to the change in fair value may not be linear. Also, the effect of a variation in a particular assumption on the fair value of the MSRs is calculated independently without changing any other assumption. In reality, changes in one factor may result in changes in another (for example, changes in mortgage interest

rates, which drive changes in prepayment rate estimates, could result in changes in the interest rate spread), which could either magnify or counteract the sensitivities.

The following tables set forth the fair value of commercial and residential MSRs and the sensitivity analysis of the hypothetical effect on the fair value of MSRs to immediate adverse changes of 10% and 20% in those assumptions:

Table 61: Commercial Mortgage Loan Servicing Rights –Key Valuation Assumptions

Dollars in millions	December 31 2016	December 31 2015
Fair value	\$ 576	\$ 526
Weighted-average life (years)	4.6	4.7
Weighted-average constant prepayment rate	8.61%	5.71%
Decline in fair value from 10% adverse change	\$ 11	\$ 10
Decline in fair value from 20% adverse change	\$ 21	\$ 19
Effective discount rate	7.52%	7.49%
Decline in fair value from 10% adverse change	\$ 16	\$ 14
Decline in fair value from 20% adverse change	\$ 31	\$ 29

Table 62: Residential Mortgage Loan Servicing Rights – Key Valuation Assumptions

Dollars in millions	December 31 2016	December 31 2015
Fair value	\$ 1,182	\$ 1,063
Weighted-average life (years)	6.8	6.3
Weighted-average constant prepayment rate	9.41%	10.61%
Decline in fair value from 10% adverse change	\$ 45	\$ 44
Decline in fair value from 20% adverse change	\$ 86	\$ 85
Weighted-average option adjusted spread	850bps	893bps
Decline in fair value from 10% adverse change	\$ 37	\$ 34
Decline in fair value from 20% adverse change	\$ 72	\$ 67

Fees from mortgage loan servicing, which includes contractually specified servicing fees, late fees and ancillary fees were \$.5 billion for 2016, 2015 and 2014. We also generate servicing fees from fee-based activities provided to others for which we do not have an associated servicing asset. Fees from commercial and residential MSRs are reported on our Consolidated Income Statement in the line items Corporate services and Residential mortgage, respectively.

NOTE 8 PREMISES, EQUIPMENT AND LEASEHOLD IMPROVEMENTS

Premises, equipment and leasehold improvements, stated at cost less accumulated depreciation and amortization, were as follows:

Table 63: Premises, Equipment and Leasehold Improvements

In millions	December 31 2016	December 31 2015
Premises, equipment and leasehold improvements	\$ 10,410	\$ 10,257
Accumulated depreciation and amortization	(4,888)	(4,349)
Net book value	\$ 5,522	\$ 5,908

Depreciation expense on premises, equipment and leasehold improvements and amortization expense, excluding intangible assets, primarily for capitalized internally developed software was as follows:

Table 64: Depreciation and Amortization Expense

Year ended December 31 In millions	2016	2015	2014
Depreciation	\$683	\$643	\$618
Amortization	46	40	30
Total depreciation and amortization	729	683	648

We lease certain facilities and equipment under agreements expiring at various dates through the year 2081. We account for these as operating leases. Rental expense on such leases was as follows:

Table 65: Lease Rental Expense

Year ended December 31 In millions	2016	2015	2014
Lease rental expense	\$442	\$460	\$414

Required minimum annual rentals that we owe on noncancelable leases having initial or remaining terms in excess of one year totaled \$2.5 billion at December 31, 2016. Future minimum annual rentals are as follows:

Table 66: Minimum Annual Lease Rentals

In millions	
2017	\$ 381
2018	\$ 356
2019	\$ 301
2020	\$ 251
2021	\$ 208
2022 and thereafter	\$1,035

NOTE 9 TIME DEPOSITS

Total time deposits of \$17.6 billion at December 31, 2016 have future contractual maturities, including related purchase accounting adjustments, as follows:

Table 67: Time Deposits

In billions	
2017	\$12.2
2018	\$ 1.0
2019	\$ 0.5
2020	\$ 0.9
2021	\$ 1.0
2022 and thereafter	\$ 2.0

NOTE 10 BORROWED FUNDS

The following shows the carrying value of total borrowed funds of \$52.7 billion at December 31, 2016 (including adjustments related to purchase accounting, accounting hedges and unamortized original issuance discounts) by remaining contractual maturity:

Table 68: Borrowed Funds

In billions	
2017	\$14.4
2018	\$12.2
2019	\$10.3
2020	\$ 4.6
2021	\$ 2.2
2022 and thereafter	\$ 9.0

Table of Contents

The following table presents the contractual rates and maturity dates of our FHLB borrowings, senior debt and subordinated debt as of December 31, 2016 and the carrying values as of December 31, 2016 and 2015.

Table 69: FHLB Borrowings, Senior Debt and Subordinated Debt

In millions	Stated Rate	Maturity	Carrying Value	
	2016	2016	2016	2015
Parent Company				
Senior debt	2.85%-6.70%	2019-2022	\$ 3,960	\$ 5,265
Subordinated debt	3.90%-6.88%	2017-2024	2,038	2,061
Junior subordinated debt	1.50%	2028	205	205
Subtotal			6,203	7,531
Bank				
FHLB (a)	zero-6.50%	2017-2030	17,549	20,108
Senior debt	0.45%-3.30%	2017-2043	19,012	16,033
Subordinated debt	1.32%-6.88%	2017-2025	5,766	6,290
Subtotal			42,327	42,431
Total			\$48,530	\$49,962

(a) FHLB borrowings are generally collateralized by residential mortgage loans, other mortgage-related loans and commercial mortgage-backed securities.

In Table 69, the carrying values for Parent Company senior and subordinated debt include basis adjustments of \$118 million and \$42 million, respectively, whereas Bank senior and subordinated debt include basis adjustments of \$(75) million and \$67 million, respectively, related to fair value accounting hedges as of December 31, 2016.

Also included in borrowed funds are repurchase agreements. Additionally, certain borrowings are reported at fair value. Refer to Note 6 Fair Value for more information on those borrowings.

Junior Subordinated Debentures

PNC Capital Trust C, a wholly-owned finance subsidiary of PNC, owns junior subordinated debentures issued by PNC with a carrying value of \$205 million. In June 1998, PNC Capital Trust C issued \$200 million of trust preferred securities which bear interest at an annual rate of 3 month LIBOR plus 57 basis points. The trust preferred securities are currently redeemable by PNC Capital Trust C at par. In accordance with GAAP, the financial statements of the Trust are not included in our consolidated financial statements.

The obligations of PNC, as the parent of the Trust, when taken collectively, are the equivalent of a full and unconditional guarantee of the obligations of the Trust under the terms of the trust preferred securities. Such guarantee is subordinate in right of payment in the same manner as other junior subordinated debt. There are certain restrictions on our overall ability to obtain funds from our subsidiaries. For additional disclosure on these funding restrictions, see Note 18 Regulatory Matters. PNC and PNC Bank are also subject to restrictions on dividends and other provisions potentially imposed by the REIT preferred securities, including under the Exchange Agreement with PNC Preferred Funding Trust II, as described in Note 15 Equity.

We are subject to certain restrictions, including restrictions on dividend payments, in connection with the outstanding junior subordinated debentures. Generally, if there is (i) an event of default under the debenture, (ii) we elect to defer interest on the debenture, (iii) we exercise our right to defer payments on the related trust preferred securities, or (iv) there is a default under our guarantee of such payment obligations, then we would be subject during the period of such default or deferral to restrictions on dividends and other provisions protecting the status of the debenture holders similar to or in some ways more restrictive than those potentially imposed under the Exchange Agreement with PNC Preferred Funding Trust II, as described in Note 15 Equity.

NOTE 11 EMPLOYEE BENEFIT PLANS

Pension and Postretirement Plans

We have a noncontributory, qualified defined benefit pension plan covering eligible employees. Benefits are determined using a cash balance formula where earnings credits are a percentage of eligible compensation. Earnings credit percentages for those employees who were plan participants on December 31, 2009 are frozen at the level earned to that point. Earnings credits for all employees who became participants on or after January 1, 2010 are a flat 3% of eligible compensation. All plan participants earn interest on their cash balances based on 30-year Treasury securities rates with those who were participants at December 31, 2009 earning a minimum rate. New participants on or after January 1, 2010 are not subject to the minimum rate. Any pension contributions to the plan are based on an actuarially determined amount necessary to fund total benefits payable to plan participants. We made voluntary contributions of \$3 billion and \$2 billion in December 2016 and February 2015, respectively, to the qualified pension plan.

Table of Contents

We also maintain nonqualified supplemental retirement plans for certain employees and provide certain health care and life insurance benefits for qualifying retired employees (postretirement benefits) through various plans. PNC reserves the right to terminate or make changes to these plans at any time. The nonqualified pension plan is unfunded. Contributions from PNC and, in the case of the postretirement benefit plans, participant contributions cover all benefits paid under the nonqualified pension plan and postretirement benefit plans. The postretirement plan provides benefits to certain retirees that are at least actuarially equivalent to those provided by Medicare Part D and accordingly, we receive a federal subsidy as shown in Table 70. In November of 2015, we established a voluntary employee beneficiary association (VEBA) to partially fund postretirement medical and life insurance benefit obligations.

We use a measurement date of December 31 for plan assets and benefit obligations. A reconciliation of the changes in the projected benefit obligation for qualified pension, nonqualified pension and postretirement benefit plans as well as the change in plan assets for the qualified pension plan follows.

Table 70: Reconciliation of Changes in Projected Benefit Obligation and Change in Plan Assets

December 31 (Measurement Date) – in millions	Qualified Pension		Nonqualified Pension		Postretirement Benefits	
	2016	2015	2016	2015	2016	2015
Accumulated benefit obligation at end of year	\$4,495	\$4,330	\$ 282	\$ 292		
Projected benefit obligation at beginning of year	\$4,397	\$4,499	\$ 298	\$ 322	\$ 368	\$ 379
Service cost	102	107	3	3	6	5
Interest cost	186	177	12	11	15	15
Actuarial (gains)/losses and changes in assumptions	131	(126)	7	(10)	6	(9)
Participant contributions					4	5
Federal Medicare subsidy on benefits paid					1	2
Benefits paid	(269)	(260)	(31)	(28)	(27)	(28)
Settlement payments						(1)
Projected benefit obligation at end of year	\$4,547	\$4,397	\$ 289	\$ 298	\$ 373	\$ 368
Fair value of plan assets at beginning of year	\$4,316	\$4,357			\$ 200	
Actual return on plan assets	320	19			(7)	
Employer contribution	250	200	\$ 31	\$ 28	37	\$ 222
Participant contributions					4	5
Federal Medicare subsidy on benefits paid					1	2
Benefits paid	(269)	(260)	(31)	(28)	(27)	(28)
Settlement payments						(1)
Fair value of plan assets at end of year	\$4,617	\$4,316	–	–	\$ 208	200
Funded status	\$ 70	\$ (81)	\$(289)	\$(298)	\$(165)	\$(168)
Amounts recognized on the consolidated balance sheet						
Noncurrent asset	\$ 70					
Current liability			\$ (27)	\$ (27)	\$ (2)	\$ (2)
Noncurrent liability		\$ (81)	(262)	(271)	(163)	(166)
Net amount recognized on the consolidated balance sheet	\$ 70	\$ (81)	\$(289)	\$(298)	\$(165)	\$(168)
Amounts recognized in accumulated other comprehensive income consist of:						
Prior service cost (credit)	\$ (7)	\$ (13)		\$ 1	\$ (3)	\$ (3)
Net actuarial loss	841	794	\$ 74	71	40	22
Amount recognized in AOCI	\$ 834	\$ 781	\$ 74	\$ 72	\$ 37	\$ 19

Table of Contents

At December 31, 2016, the fair value of the qualified pension plan assets was more than both the accumulated benefit obligation and the projected benefit obligation.

PNC Pension Plan Assets

The long-term investment strategy for pension plan assets in our qualified pension plan (the Plan) is to:

- Meet present and future benefit obligations to all participants and beneficiaries,
- Cover reasonable expenses incurred to provide such benefits, including expenses incurred in the administration of the Trust and the Plan,
- Provide sufficient liquidity to meet benefit and expense payment requirements on a timely basis, and
- Provide a total return that, over the long term, maximizes the ratio of trust assets to liabilities by maximizing investment return, at an appropriate level of risk.

The Plan's named investment fiduciary has the ability to make short to intermediate term asset allocation shifts under the dynamic asset allocation strategy based on factors such as the Plan's funded status, the named investment fiduciary's view of return on equities relative to long term expectations, the named investment fiduciary's view on the direction of interest rates and credit spreads, and other relevant financial or economic factors which would be expected to impact the ability of the Trust to meet its obligation to participants and beneficiaries. Accordingly, the allowable asset allocation ranges have been updated to incorporate the flexibility required by the dynamic allocation policy.

The asset strategy allocations for the Trust at the end of 2016 and 2015, and the target allocation range at the end of 2016, by asset category, are as follows.

Table 71: Asset Strategy Allocations

	Target Allocation Range	Target Percentage of Plan Assets by Strategy at December 31	
PNC Pension Plan		2016	2015
Asset Category			
Domestic Equity	20 – 40%	28%	32%
International Equity	10 – 25%	21%	23%
Private Equity	0 – 15%	8%	8%
Total Equity	40 – 70%	57%	63%
Domestic Fixed Income	10 – 40%	16%	17%
High Yield Fixed Income	0 – 25%	12%	12%
Total Fixed Income	10 – 65%	28%	29%
Real estate	0 – 15%	5%	5%
Other	0 – 5%	10%	3%
Total	100%	100%	100%

The asset category represents the allocation of Plan assets in accordance with the investment objective of each of the Plan's investment managers. Certain domestic equity investment managers utilize derivatives and fixed income securities as described in their Investment Management Agreements to achieve their investment objective under the Investment Policy Statement. Other investment managers may invest in eligible securities outside of their assigned asset category to meet their investment objectives. The actual percentage of the fair value of total Plan assets held as of December 31, 2016 for equity securities, fixed income securities, real estate and all other assets are 65%, 19%, 5% and 11%, respectively.

We believe that, over the long term, asset allocation is the single greatest determinant of risk. Asset allocation will deviate from the target percentages due to market movement, cash flows, investment manager performance and implementation of shifts under the dynamic asset allocation policy. Material deviations from the asset allocation targets can alter the expected return and risk of the Trust. On the other hand, frequent rebalancing of the asset allocation targets may result in significant transaction costs, which can impair the Trust's ability to meet its investment objective. Accordingly, the Trust portfolio is periodically rebalanced to maintain asset allocation within the target ranges described above.

In addition to being diversified across asset classes, the Trust is diversified within each asset class. Secondary diversification provides a reasonable basis for the expectation that no single security or class of securities will have a disproportionate impact on the total risk and return of the Trust.

Where investment strategies permit the use of derivatives and/or currency management, language is incorporated in the managers' guidelines to define allowable and prohibited transactions and/or strategies. Derivatives are typically employed by investment managers to modify risk/return characteristics of their portfolio(s), implement asset allocation changes in a cost effective manner, or reduce transaction costs. Under the managers' investment guidelines, derivatives may not be used solely for speculation or leverage. Derivatives are to be used only in circumstances where they offer the most efficient economic means of improving the risk/reward profile of the portfolio.

Fair Value Measurements

As further described in Note 6 Fair Value, GAAP establishes the framework for measuring fair value, including a hierarchy used to classify the inputs used in measuring fair value.

A description of the valuation methodologies used for assets measured at fair value at both December 31, 2016 and December 31, 2015 follows:

- Money market funds are valued at the net asset value of the shares held by the pension plan at year end.
- U.S. government and agency securities, corporate debt and common stock are valued at the closing price reported on the active market on which the individual securities are traded. If quoted market prices are not available for the specific security, then fair values are estimated by using pricing models or quoted prices of securities with similar characteristics. Such securities are generally classified within Level 2 of the valuation hierarchy but may be a Level 3 depending on the level of liquidity and activity in the market for the security.
- Other investments held by the pension plan include derivative financial instruments, which are recorded at estimated fair value as determined by third-party appraisals and pricing models, and group annuity contracts, which are measured at fair value by discounting the related cash flows based on current yields of similar instruments with comparable durations considering the credit-worthiness of the issuer. Also included in other investments is preferred stock valued at the closing price reported on an active market on which the securities are traded.

- Investments measured at net asset value include collective trust fund investments and limited partnerships. Collective trust fund investments are valued based upon the units of such collective trust fund held by the Plan at year end multiplied by the respective unit value. The unit value of the collective trust fund is based upon significant observable inputs, although it is not based upon quoted marked prices in an active market. The underlying investments of the collective trust funds consist primarily of equity securities, debt obligations, short-term investments, and other marketable securities. Due to the nature of these securities, there are no unfunded commitments or redemption restrictions. Limited partnerships are valued by investment managers based on recent financial information used to estimate fair value. The unit value of limited partnerships is based upon significant observable inputs, although it is not based upon quoted marked prices in an active market. In accordance with ASC 820-10, collective trust fund investments and limited partnerships are not classified in the fair value hierarchy.

These methods may result in fair value calculations that may not be indicative of net realizable values or future fair values. Furthermore, while the pension plan believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different fair value measurement at the reporting date.

Table of Contents

The following table sets forth by level, within the fair value hierarchy, the Plan's assets at fair value as of December 31, 2016 and 2015.

Table 72: Pension Plan Assets – Fair Value Hierarchy

In millions	Fair Value Measurements Using:			
	December 31, 2016 Fair Value	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Interest bearing cash	\$ 45	\$ 35	\$ 10	
Money market funds	404	404		
U.S. government and agency securities	285	158	127	
Corporate debt	580		572	\$ 8
Common stock	652	645	7	
Other	60		60	
Investments measured at net asset value (a)	2,591			
Total	\$ 4,617	\$ 1,242	\$ 776	\$ 8

In millions	Fair Value Measurements Using:			
	December 31, 2015 Fair Value	Quoted Prices in Active Markets For Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)
Money market funds	\$ 154	\$ 154		
U.S. government and agency securities	324	186	\$ 138	
Corporate debt	575		568	\$ 7
Common stock	660	630	30	
Other	25	1	24	
Investments measured at net asset value (a)	2,578			
Total	\$ 4,316	\$ 971	\$ 760	\$ 7

(a) In accordance with ASC 820-10, collective trust fund investments and limited partnerships are measured at fair value using the NAV per share (or its equivalent) practical expedient and have not been classified in the fair value hierarchy. The fair value amounts presented in this table are intended to permit reconciliation of the fair value hierarchy to the amounts presented on the Consolidated Balance Sheet.

The following table provides information regarding our estimated future cash flows related to our various plans.

Table 73: Estimated Cash Flows

In millions	Pension Plans		Postretirement Benefits	
	Qualified Pension	Nonqualified Pension	Gross PNC Benefit Payments	Reduction in PNC Benefit Payments Due to Medicare Part D Subsidy
Estimated 2017 employer contributions		\$ 27	\$ 29	\$ 1
Estimated future benefit payments				
2017	\$ 285	\$ 28	\$ 29	\$ 1
2018	\$ 300	\$ 29	\$ 30	\$ 1
2019	\$ 310	\$ 26	\$ 29	\$ 1
2020	\$ 311	\$ 25	\$ 29	\$ 1
2021	\$ 312	\$ 24	\$ 28	\$ 1
2022-2026	\$ 1,563	\$ 104	\$ 132	\$ 2

The qualified pension plan contributions are deposited into the Trust, and the qualified pension plan benefit payments are paid from the Trust. Notwithstanding the contributions, we do not expect to be required to make a contribution to the qualified plan for 2017 based on the funding calculations under the Pension Protection Act of 2006. For the other plans, total contributions and the benefit payments are the same and represent expected benefit amounts, which are paid from general assets. Postretirement benefits are net of participant contributions. Estimated cash flows reflect the partial funding of postretirement medical and life insurance obligations in the VEBA.

Table of Contents

The components of net periodic benefit cost/(income) and other amounts recognized in Other comprehensive income (OCI) were as follows.

Table 74: Components of Net Periodic Benefit Cost

Year ended December 31 – in millions	Qualified Pension Plan			Nonqualified Pension Plan			Postretirement Benefits		
	2016	2015	2014	2016	2015	2014	2016	2015	2014
Net periodic cost consists of:									
Service cost	\$ 102	\$ 107	\$ 103	\$ 3	\$ 3	\$ 3	\$ 6	\$ 5	\$ 5
Interest cost	186	177	187	12	11	12	15	15	16
Expected return on plan assets	(281)	(297)	(289)				(6)		
Amortization of prior service cost/(credit)	(7)	(9)	(8)				(1)	(1)	(2)
Amortization of actuarial (gain)/loss	45	31		5	7	4			
Net periodic cost (benefit)	45	9	(7)	20	21	19	14	19	19
Other changes in plan assets and benefit obligations recognized in Other comprehensive income:									
Current year prior service cost/(credit)			(7)						
Amortization of prior service (cost)/credit	7	9	8				1	1	2
Current year actuarial loss/(gain)	91	152	434	7	(10)	40	17	(9)	4
Amortization of actuarial gain/(loss)	(45)	(31)		(5)	(7)	(4)			
Total recognized in OCI	53	130	435	2	(17)	36	18	(8)	6
Total amounts recognized in net periodic cost and OCI	\$ 98	\$ 139	\$ 428	\$ 22	\$ 4	\$ 55	\$ 32	\$ 11	\$ 25

The weighted-average assumptions used (as of the beginning of each year) to determine the net periodic costs shown in Table 74 were as follows.

Table 75: Net Periodic Costs – Assumptions

Year ended December 31	Net Periodic Cost Determination		
	2016	2015	2014
Discount rate			
Qualified pension	4.25%	3.95%	4.75%
Nonqualified pension	3.95%	3.65%	4.35%
Postretirement benefits	4.15%	3.80%	4.50%
Rate of compensation increase (average)	3.50%	4.00%	4.00%
Assumed health care cost trend rate			
Initial trend	7.25%	7.50%	7.75%
Ultimate trend	5.00%	5.00%	5.00%
Year ultimate trend reached	2025	2025	2025
Expected long-term return on plan assets	6.75%	6.75%	7.00%

The weighted-average assumptions used (as of the end of each year) to determine year end obligations for pension and postretirement benefits were as follows.

Table 76: Other Pension Assumptions

Year ended December 31	2016	2015
Discount rate		
Qualified pension	4.00%	4.25%
Nonqualified pension	3.80%	3.95%
Postretirement benefits	3.90%	4.15%
Rate of compensation increase (average)	3.50%	3.50%
Assumed health care cost trend rate		
Initial trend	7.00%	7.25%
Ultimate trend	5.00%	5.00%
Year ultimate trend reached	2025	2025

The discount rates are determined independently for each plan by comparing the expected future benefits that will be paid under each plan with yields available on high quality corporate bonds of similar duration. For this analysis, 10% of bonds with the highest yields and 40% with the lowest yields were removed from the bond universe.

Table of Contents

The expected return on plan assets is a long-term assumption established by considering historical and anticipated returns of the asset classes invested in by the pension plan and the allocation strategy currently in place among those classes. For purposes of setting and reviewing this assumption, “long term” refers to the period over which the plan’s projected benefit obligations will be disbursed. We review this assumption at each measurement date and adjust it if warranted. Our selection process references certain historical data and the current environment, but primarily utilizes qualitative judgment regarding future return expectations. We also examine the assumption used by other companies with similar pension investment strategies. Taking into account all of these factors, the expected long-term return on plan assets for determining net periodic pension cost for 2016 was 6.75%. We are reducing our expected long-term return on assets to 6.375% for determining pension cost for 2017. This decision was made after considering the views of both internal and external capital market advisors, particularly with regard to the effects of the recent economic environment on long-term prospective equity and fixed income returns.

PNC’s net periodic benefit cost recognized for the plans is sensitive to the discount rate and expected long-term return on plan assets. With all other assumptions held constant, a .5% decline in the discount rate would have resulted in an immaterial increase in net periodic benefit cost for the qualified pension plan in 2016, and to be recognized in 2017. For the nonqualified pension plan and postretirement benefits, a .5% decline in the discount rate would also have resulted in an immaterial increase in net periodic benefit cost.

The health care cost trend rate assumptions shown in Tables 75 and 76 relate only to the postretirement benefit plans. The effect of a one-percentage-point increase or decrease in assumed health care cost trend rates would be insignificant.

Defined Contribution Plans

The PNC Incentive Savings Plan (ISP) is a qualified defined contribution plan that covers all of our eligible employees. Effective January 1, 2015, newly-hired full time employees and part-time employees who became eligible to participate in the ISP after that date are automatically enrolled in the ISP with a deferral rate equal to 4% of eligible compensation in the absence of an affirmative election otherwise. Employee benefits expense related to the ISP was \$.1 billion in 2016, 2015 and 2014, representing cash contributed to the ISP by PNC.

The ISP is a 401(k) Plan and includes an employee stock ownership (ESOP) feature. Employee contributions are invested in a number of investment options, including pre mixed portfolios and individual core funds, available under the ISP at the direction of the employee.

NOTE 12 STOCK BASED COMPENSATION PLANS

We have long-term incentive award plans (Incentive Plans) that provide for the granting of incentive stock options, nonqualified stock options, stock appreciation rights, incentive shares/performance units, restricted shares, restricted share units, other share-based awards and dollar-denominated awards to executives and, other than incentive stock options, to non-employee directors. Certain Incentive Plan awards may be paid in stock, cash or a combination of stock and cash. We typically grant a substantial portion of our stock-based compensation awards during the first quarter of each year.

Total compensation expense recognized related to all share-based payment arrangements was approximately \$.2 billion during each of 2016, 2015 and 2014. The total tax benefit recognized related to compensation expense on all share-based payment arrangements was approximately \$.1 billion during each of 2016, 2015 and 2014. At December 31, 2016, there was \$.2 billion of unamortized share-based compensation expense related to nonvested equity compensation arrangements granted under the Incentive Plans. This unamortized cost is expected to be recognized as expense over a period of no longer than five years.

Nonqualified Stock Options

We did not grant any stock options in 2016, 2015 or 2014. Prior to 2014, options were granted at exercise prices not less than the market value of a share of common stock on the grant date. Generally, options become exercisable in installments after the grant date. No option can be exercised after 10 years from its grant date. Payment of the option exercise price may be in cash or by surrendering shares of common stock at market value on the exercise date. The exercise price may also be paid by using previously owned shares.

The following table represents the stock option activity for 2016.

Table 77: Stock Options – Rollforward (a)

Year ended December 31, 2016 In millions except weighted- average data	Shares	Weighted- Average Exercise Price	Weighted- Average Remaining Contractual Life	Aggregate Intrinsic Value
Outstanding, January 1	5	\$ 55.50		
Exercised	(2)	\$ 56.43		
Outstanding, December 31	3	\$ 55.16	2.7 years	\$ 181
Vested and exercisable, December 31	3	\$ 55.16	2.7 years	\$ 181

(a) Cancelled stock options during 2016 were insignificant.

To determine stock-based compensation expense, the grant date fair value is applied to the options granted with a reduction for estimated forfeitures. We recognize compensation expense for stock options on a straight-line basis over the specified vesting period.

Table of Contents

At December 31, 2015 and 2014, options for 5 million and 6 million shares of common stock were exercisable at a weighted-average price of \$55.42 and \$56.21, respectively. The total intrinsic value of options exercised was approximately \$.1 billion during 2016, 2015 and 2014.

Cash received from option exercises under all Incentive Plans for 2016, 2015 and 2014 was approximately \$.1 billion, \$.1 billion and \$.2 billion, respectively. The tax benefit realized from option exercises under all Incentive Plans was insignificant for 2016, 2015 and 2014.

Shares of common stock available during the next year for the granting of options and other awards under the Incentive Plans were approximately 39 million shares at December 31, 2016. Total shares of PNC common stock authorized for future issuance under all equity compensation plans totaled approximately 40 million shares at December 31, 2016.

During 2016, we issued approximately 2 million common shares from treasury stock in connection with stock option exercise activity. As with past exercise activity, we currently intend to utilize primarily treasury stock for any future stock option exercises.

Incentive/Performance Unit Awards and Restricted Share/Restricted Share Unit Awards

The fair value of nonvested incentive/performance unit awards and restricted share/restricted share unit awards is initially determined based on prices not less than the market value of our common stock on the date of grant with a reduction for estimated forfeitures. The value of certain incentive/performance unit awards is subsequently remeasured based on the achievement of one or more financial and other performance goals. Additionally, certain incentive/performance unit awards require subsequent adjustment to their current market value due to certain discretionary risk review triggers.

The weighted-average grant date fair value of incentive/performance unit awards and restricted share/restricted share unit awards granted in 2016, 2015 and 2014 was \$78.37, \$91.57 and \$80.79 per share, respectively. The total intrinsic value of incentive/performance unit and restricted share/restricted share unit awards vested during 2016, 2015 and 2014 was approximately \$.1 billion, \$.2 billion and \$.1 billion, respectively. We recognize compensation expense for such awards ratably over the corresponding vesting and/or performance periods for each type of program.

Table 78: Nonvested Incentive/Performance Unit Awards and Restricted Share/Restricted Share Unit Awards –Rollforward (a)

Shares in millions	Nonvested Incentive/Performance Units	Weighted-Average Grant Date Fair Value	Nonvested Restricted Share/Restricted Share Units	Weighted-Average Grant Date Fair Value
December 31, 2015	2	\$ 79.27	3	\$ 79.26
Granted (b)	1	\$ 77.77	1	\$ 78.71
Vested/Released (b)	(1)	\$ 71.59	(1)	\$ 65.53
December 31, 2016	2	\$ 81.42	3	\$ 83.27

(a) Forfeited awards during 2016 were insignificant.

(b) Includes adjustments for achieving specific performance goals for Incentive/Performance Unit Share Awards granted in prior periods.

In Table 78, the units and related weighted-average grant date fair value of the incentive/performance unit share awards exclude the effect of dividends on the underlying shares, as those dividends will be paid in cash if and when the underlying shares are issued to the participants.

BlackRock Long-term Incentive Plans (LTIP)

BlackRock adopted the 2002 LTIP program to help attract and retain qualified professionals. At that time, we agreed to transfer up to four million shares of BlackRock common stock to fund a portion of the 2002 LTIP program and future LTIP programs approved by BlackRock's Board of Directors.

In 2009, our obligation to deliver any remaining BlackRock common shares was replaced with an obligation to deliver shares of BlackRock's Series C Preferred Stock held by us.

In 2016, we transferred .5 million shares of BlackRock Series C Preferred Stock to BlackRock in connection with our obligation. At December 31, 2016, we held approximately .8 million shares of BlackRock Series C Preferred Stock which were available to fund our obligations. See Note 23 Subsequent Events for information on our February 1, 2017 transfer of .5 million shares of the Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation.

We account for our BlackRock Series C Preferred Stock at fair value, which offsets the impact of marking-to-market the obligation to deliver these shares to BlackRock. See Note 6 Fair Value for additional information regarding the valuation of the BlackRock Series C Preferred Stock.

NOTE 13 FINANCIAL DERIVATIVES

We use derivative financial instruments primarily to help manage exposure to interest rate, market and credit risk and reduce the effects that changes in interest rates may have on net income, the fair value of assets and liabilities, and cash flows. We also enter into derivatives with customers to facilitate their risk management activities. Derivatives represent contracts between parties that usually require little or no initial net investment and result in one party delivering cash or another type of asset to the other party based on a notional amount and an underlying as specified in the contract.

Derivative transactions are often measured in terms of notional amount, but this amount is generally not exchanged and it is not recorded on the balance sheet. The notional amount is the basis to which the underlying is applied to determine required payments under the derivative contract. The underlying is a referenced interest rate (commonly LIBOR), security price, credit spread or other index. Residential and commercial real estate loan commitments associated with loans to be sold also qualify as derivative instruments.

The following table presents the notional amounts and gross fair values of all derivative assets and liabilities held by us:

Table 79: Total Gross Derivatives

	December 31, 2016			December 31, 2015		
	Notional / Contract Amount	Asset Fair Value (a)	Liability Fair Value (b)	Notional / Contract Amount	Asset Fair Value (a)	Liability Fair Value (b)
In millions						
Derivatives used for hedging under GAAP						
Interest rate contracts (c):						
Fair value hedges	\$ 34,010	\$ 551	\$ 214	\$ 31,690	\$ 712	\$ 171
Cash flow hedges	20,831	313	71	19,279	416	3
Foreign exchange contracts:						
Net investment hedges	945	25		1,105	31	
Total derivatives designated for hedging	\$ 55,786	\$ 889	\$ 285	\$ 52,074	\$ 1,159	\$ 174
Derivatives not used for hedging under GAAP						
Derivatives used for mortgage banking activities (d):						
Interest rate contracts:						
Swaps	\$ 49,071	\$ 783	\$ 505	\$ 41,527	\$ 835	\$ 462
Futures (e)	36,264			36,127		
Mortgage-backed commitments	13,317	96	56	13,039	47	22
Other	31,907	28	4	7,289	29	15
Subtotal	130,559	907	565	97,982	911	499
Derivatives used for customer-related activities:						
Interest rate contracts:						
Swaps	173,777	2,373	2,214	157,041	2,507	2,433
Futures (e)	4,053			1,673		
Mortgage-backed commitments	2,955	10	8	1,910	5	2
Other	16,203	55	53	16,083	104	24
Subtotal	196,988	2,438	2,275	176,707	2,616	2,459
Foreign exchange contracts and other	21,889	342	309	15,914	196	202
Subtotal	218,877	2,780	2,584	192,621	2,812	2,661
Derivatives used for other risk management activities:						
Foreign exchange contracts and other (f)	5,581	40	405	5,299	59	468
Total derivatives not designated for hedging	\$355,017	\$ 3,727	\$ 3,554	\$295,902	\$ 3,782	\$ 3,628
Total gross derivatives	\$410,803	\$ 4,616	\$ 3,839	\$347,976	\$ 4,941	\$ 3,802
Less: Impact of legally enforceable master netting agreements		(2,460)	(2,460)		(2,554)	(2,554)
Less: Cash collateral received/paid		(657)	(484)		(551)	(608)
Total derivatives		\$ 1,499	\$ 895		\$ 1,836	\$ 640

(a) Included in Other assets on our Consolidated Balance Sheet.

(b) Included in Other liabilities on our Consolidated Balance Sheet.

(c) Represents primarily swaps.

(d) Includes both residential and commercial mortgage banking activities.

(e) Futures contracts settle in cash daily and, therefore, no derivative asset or derivative liability is recognized on our Consolidated Balance Sheet.

(f) Includes our obligation to fund a portion of certain BlackRock LTIP programs and the swaps entered into in connection with sales of a portion of Visa Class B common shares.

Table of Contents

All derivatives are carried on our Consolidated Balance Sheet at fair value. Derivative balances are presented on the Consolidated Balance Sheet on a net basis taking into consideration the effects of legally enforceable master netting agreements and, when appropriate, any related cash collateral exchanged with counterparties. Further discussion regarding the offsetting rights associated with these legally enforceable master netting agreements is included in the Offsetting, Counterparty Credit Risk, and Contingent Features section below. Any nonperformance risk, including credit risk, is included in the determination of the estimated net fair value of the derivatives.

Further discussion on how derivatives are accounted for is included in Note 1 Accounting Policies.

Derivatives Designated As Hedging Instruments under GAAP

Certain derivatives used to manage interest rate and foreign exchange risk as part of our asset and liability risk management activities are designated as accounting hedges under GAAP. Derivatives hedging the risks associated with changes in the fair value of assets or liabilities are considered fair value hedges, derivatives hedging the variability of expected future cash flows are considered cash flow hedges, and derivatives hedging a net investment in a foreign subsidiary are considered net investment hedges. Designating derivatives as accounting hedges allows for gains and losses on those derivatives, to the extent effective, to be recognized in the income statement in the same period the hedged items affect earnings.

Fair Value Hedges

We enter into receive-fixed, pay-variable interest rate swaps to hedge changes in the fair value of outstanding fixed-rate debt caused by fluctuations in market interest rates. We also enter into pay-fixed, receive-variable interest rate swaps and zero-coupon swaps to hedge changes in the fair value of fixed rate and zero-coupon investment securities caused by fluctuations in market interest rates. For these hedge relationships, we use statistical regression analysis to assess hedge effectiveness at both the inception of the hedge relationship and on an ongoing basis. There were no components of derivative gains or losses excluded from the assessment of hedge effectiveness for all periods presented.

Further detail regarding gains (losses) on fair value hedge derivatives and related hedged items is presented in the following table:

Table 80: Gains (Losses) on Derivatives and Related Hedged Items – Fair Value Hedges (a)

In millions	Hedged Items	Location	Year ended					
			December 31, 2016		December 31, 2015		December 31, 2014	
			Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income	Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income	Gain (Loss) on Derivatives Recognized in Income	Gain (Loss) on Related Hedged Items Recognized in Income
Interest rate contracts	U.S. Treasury and Government Agencies and Other Debt Securities	Investment securities (interest income)	\$ 142	\$ (141)	(b)	(b)	\$ (111)	\$ 116
Interest rate contracts	Subordinated Debt and Bank Notes and Senior Debt	Borrowed funds (interest expense)	(332)	299	\$ (108)	\$ 67	123	(158)
Total (a)			\$ (190)	\$ 158	\$ (108)	\$ 67	\$ 12	\$ (42)

(a) The difference between the gains (losses) recognized in income on derivatives and their related hedged items represents the ineffective portion of the change in value of our fair value hedge derivatives.

(b) The gains (losses) on derivatives and their related hedged items recognized in income were less than \$.5 million.

Cash Flow Hedges

We enter into receive-fixed, pay-variable interest rate swaps to modify the interest rate characteristics of designated commercial loans from variable to fixed in order to reduce the impact of changes in future cash flows due to market interest rate changes. For these cash flow hedges, any changes in the fair value of the derivatives that are effective in offsetting changes in the forecasted interest cash flows are recorded in Accumulated other comprehensive income and are reclassified to interest income in conjunction with the recognition of interest received on the loans. We use statistical regression analysis to assess the effectiveness of these hedge relationships at both the inception of the hedge relationship and on an ongoing basis.

Table of Contents

We also periodically enter into forward purchase and sale contracts to hedge the variability of the consideration that will be paid or received related to the purchase or sale of investment securities. The forecasted purchase or sale is consummated upon gross settlement of the forward contract itself. As a result, hedge ineffectiveness, if any, is typically minimal. Gains and losses on these forward contracts are recorded in Accumulated other comprehensive income and are recognized in earnings when the hedged cash flows affect earnings.

In the 12 months that follow December 31, 2016, we expect to reclassify net derivative gains of \$186 million pretax, or \$120 million after-tax, from Accumulated other

comprehensive income to interest income for both cash flow hedge strategies. This reclassified amount could differ from amounts actually recognized due to changes in interest rates, hedge de-designations, and the addition of other hedges subsequent to December 31, 2016. As of December 31, 2016, the maximum length of time over which forecasted transactions are hedged is five years. During 2016, 2015 and 2014, there were no gains or losses from cash flow hedge derivatives reclassified to earnings because it became probable that the original forecasted transaction would not occur.

There were no components of derivative gains or losses excluded from the assessment of hedge effectiveness related to either cash flow hedge strategy for all periods presented.

Further detail regarding gains (losses) on derivatives and related cash flows is presented in the following table:

Table 81: Gains (Losses) on Derivatives and Related Cash Flows – Cash Flow Hedges (a) (b)

In millions	Year ended December 31		
	2016	2015	2014
Gains (losses) on derivatives recognized in OCI – (effective portion)	\$ 100	\$415	\$431
Less: Gains (losses) reclassified from accumulated OCI into income – (effective portion)			
Interest income	\$ 253	\$293	\$263
Noninterest income		(5)	
Total gains (losses) reclassified from accumulated OCI into income – (effective portion)	\$ 253	\$288	\$263
Net unrealized gains (losses) on cash flow hedge derivatives	\$(153)	\$127	\$168

(a) All cash flow hedge derivatives are interest rate contracts as of December 31, 2016, December 31, 2015 and December 31, 2014.

(b) The amount of cash flow hedge ineffectiveness recognized in income was not significant for the periods presented.

Net Investment Hedges

We enter into foreign currency forward contracts to hedge non-U.S. Dollar net investments in foreign subsidiaries against adverse changes in foreign exchange rates. We assess whether the hedging relationship is highly effective in achieving offsetting changes in the value of the hedge and hedged item by qualitatively verifying that the critical terms of the hedge and hedged item match at the inception of the hedging relationship and on an ongoing basis. Net investment hedge derivatives are classified as foreign exchange contracts. There were no components of derivative gains or losses excluded from the assessment of the hedge effectiveness for all periods presented. For 2016, 2015 and 2014, there was no net investment hedge ineffectiveness. Net gains on net investment hedge derivatives recognized in OCI were \$186 million in 2016, \$60 million in 2015 and \$54 million in 2014.

Derivatives Not Designated As Hedging Instruments under GAAP

Residential mortgage loans that will be sold in the secondary market, and the related loan commitments, which are considered derivatives, are accounted for at fair value. Changes in the fair value of the loans and commitments due to interest rate risk are hedged with forward contracts to sell mortgage-backed securities, as well as U.S. Treasury and

Eurodollar futures and options. Gains and losses on the loans and commitments held for sale and the derivatives used to economically hedge them are included in Residential mortgage noninterest income on the Consolidated Income Statement.

Residential mortgage servicing rights are accounted for at fair value with changes in fair value influenced primarily by changes in interest rates. Derivatives used to hedge the fair value of residential mortgage servicing rights include interest rate futures, swaps, options, and forward contracts to purchase mortgage-backed securities. Gains and losses on residential mortgage servicing rights and the related derivatives used for hedging are included in Residential mortgage noninterest income.

Commercial mortgage loans held for sale and the related loan commitments, which are considered derivatives, are accounted for at fair value. Derivatives used to economically hedge these loans and commitments from changes in fair value due to interest rate risk and credit risk include forward loan sale contracts, interest rate swaps, and credit default swaps. Gains and losses on the commitments, loans and derivatives are included in Other noninterest income. Derivatives used to economically hedge the change in value of commercial mortgage servicing rights include interest rate futures, swaps

Table of Contents

and options. Gains or losses on these derivatives are included in Corporate services noninterest income.

The residential and commercial mortgage loan commitments associated with loans to be sold which are accounted for as derivatives are valued based on the estimated fair value of the underlying loan and the probability that the loan will fund within the terms of the commitment. The fair value also takes into account the fair value of the embedded servicing right.

We offer derivatives to our customers in connection with their risk management needs. These derivatives primarily consist of interest rate swaps, interest rate caps and floors, swaptions and foreign exchange contracts. We primarily manage our market risk exposure from customer transactions by entering into a variety of hedging transactions with third-party dealers. Gains and losses on customer-related derivatives are included in Other noninterest income.

Included in the customer, mortgage banking risk management, and other risk management portfolios are written interest-rate caps and floors entered into with customers and for risk management purposes. We receive an upfront premium from the counterparty and are obligated to make payments to the counterparty if the underlying market interest rate rises above or falls below a certain level designated in the contract. Our ultimate obligation under written options is based on future market conditions.

We have entered into risk participation agreements to share some of the credit exposure with other counterparties related to interest rate derivative contracts or to take on credit exposure to generate revenue. The notional amount of risk participation agreements sold was \$4.3 billion at December 31, 2016 and \$2.5 billion at December 31, 2015. Assuming all underlying third party customers referenced in the swap contracts defaulted, the exposure from these agreements would be \$.1 billion at both December 31, 2016 and December 31, 2015 based on the fair value of the underlying swaps.

Further detail regarding the gains (losses) on derivatives not designated in hedging relationships is presented in the following table:

Table 82: Gains (Losses) on Derivatives Not Designated for Hedging under GAAP

In millions	Year ended December 31		
	2016	2015	2014
Derivatives used for mortgage banking activities:			
Interest rate contracts (a)	\$152	\$220	\$318
Derivatives used for customer-related activities:			
Interest rate contracts	\$ 78	\$ 71	\$ 41
Foreign exchange contracts and other	84	78	46
Gains (losses) from customer-related activities (b)	\$162	\$149	\$ 87
Derivatives used for other risk management activities:			
Interest rate contracts			\$ (19)
Foreign exchange contracts and other (c)	\$ (7)	\$282	54
Gains (losses) from other risk management activities (b)	\$ (7)	\$282	\$ 35
Total gains (losses) from derivatives not designated as hedging instruments	\$307	\$651	\$440

(a) Included in Residential mortgage, Corporate services and Other noninterest income.

(b) Included in Other noninterest income.

(c) Includes BlackRock LTIP funding obligation and the swaps entered into in connection with sales of a portion of Visa Class B common shares.

Offsetting, Counterparty Credit Risk, and Contingent Features

We, generally, utilize a net presentation on the Consolidated Balance Sheet for those derivative financial instruments entered into with counterparties under legally enforceable master netting agreements. The master netting agreements reduce credit risk by permitting the closeout netting of all outstanding derivative instruments under the master netting agreement with the same counterparty upon the occurrence of an event of default. The master netting agreement also may require the exchange of cash or marketable securities to collateralize either party's net position. In certain cases, minimum thresholds must be exceeded before any collateral is exchanged. Collateral is typically exchanged daily based on the net fair value of the positions with the counterparty as of the preceding day. Collateral representing initial margin, which is based on potential future exposure, is also required to be pledged by us in relation to derivative instruments with central clearing house counterparties. Any cash collateral exchanged with counterparties under these master netting agreements is also netted, when appropriate, against the applicable derivative fair values on the Consolidated Balance Sheet. However, the fair value of any securities held or pledged is not included in the net presentation on the balance sheet. In order for derivative instruments under a master netting agreement to be eligible for closeout netting under

Table of Contents

GAAP, we must conduct sufficient legal review to conclude with a well-founded basis that the offsetting rights included in the master netting agreement would be legally enforceable upon an event of default, including upon an event of bankruptcy, insolvency, or a similar proceeding of the counterparty. Enforceability is evidenced by a legal opinion that supports, with sufficient confidence, the enforceability of the master netting agreement in such circumstances.

Table 83 shows the impact legally enforceable master netting agreements had on our derivative assets and derivative liabilities as of December 31, 2016 and December 31, 2015. The table includes cash collateral held or pledged under legally enforceable master netting agreements. The table also includes the fair value of any securities collateral held or pledged under legally enforceable master netting agreements. Cash and securities collateral amounts are included in the table only to the extent of the related net derivative fair values.

Table 83: Derivative Assets and Liabilities Offsetting

December 31, 2016 In millions	Gross Fair Value	Amounts Offset on the Consolidated Balance Sheet		Net Fair Value	Securities Collateral Held / (Pledged) Under Master Netting Agreements	Net Amounts
		Fair Value Offset Amount	Cash Collateral			
Derivative assets						
Interest rate contracts:						
Cleared	\$ 1,498	\$ 940	\$ 480	\$ 78		\$ 78
Exchange-traded	9			9		9
Over-the-counter	2,702	1,358	164	1,180	\$ 62	1,118
Foreign exchange and other contracts	407	162	13	232		232
Total derivative assets	\$ 4,616	\$ 2,460	\$ 657	\$ 1,499 (a)	\$ 62	\$ 1,437
Derivative liabilities						
Interest rate contracts:						
Cleared	\$ 1,060	\$ 940	\$ 25	\$ 95		\$ 95
Exchange-traded	1			1		1
Over-the-counter	2,064	1,395	431	238		238
Foreign exchange and other contracts	714	125	28	561		561
Total derivative liabilities	\$ 3,839	\$ 2,460	\$ 484	\$ 895 (b)		\$ 895
December 31, 2015 In millions						
Derivative assets						
Interest rate contracts:						
Cleared	\$ 1,003	\$ 779	\$ 195	\$ 29		\$ 29
Over-the-counter	3,652	1,645	342	1,665	\$ 178	1,487
Foreign exchange and other contracts	286	130	14	142	2	140
Total derivative assets	\$ 4,941	\$ 2,554	\$ 551	\$ 1,836 (a)	\$ 180	\$ 1,656
Derivative liabilities						
Interest rate contracts:						
Cleared	\$ 855	\$ 779	\$ 57	\$ 19		\$ 19
Exchange-traded	1			1		1
Over-the-counter	2,276	1,687	530	59		59
Foreign exchange and other contracts	670	88	21	561		561
Total derivative liabilities	\$ 3,802	\$ 2,554	\$ 608	\$ 640 (b)		\$ 640

(a) Represents the net amount of derivative assets included in Other assets on our Consolidated Balance Sheet.

(b) Represents the net amount of derivative liabilities included in Other liabilities on our Consolidated Balance Sheet.

Table of Contents

Table 83 includes over-the-counter (OTC) derivatives, cleared derivatives, and exchange-traded derivatives. OTC derivatives represent contracts executed bilaterally with counterparties that are not settled through an organized exchange or cleared through a central clearing house. The majority of OTC derivatives are governed by ISDA documentation or other legally enforceable industry standard master netting agreements. Cleared derivatives represent contracts executed bilaterally with counterparties in the OTC market that are novated to a central clearing house who then becomes our counterparty. Exchange-traded derivatives represent standardized futures and options contracts executed directly on an organized exchange.

In addition to using master netting agreements and other collateral agreements to reduce credit risk associated with derivative instruments, we also seek to manage credit risk by evaluating credit ratings of counterparties and by using internal credit analysis, limits, and monitoring procedures.

At December 31, 2016, we held cash, U.S. government securities and mortgage-backed securities totaling \$1.0 billion under master netting agreements and other collateral agreements to collateralize net derivative assets due from counterparties, and we pledged cash totaling \$1.3 billion under these agreements to collateralize net derivative liabilities owed to counterparties and to meet initial margin requirements. These totals may differ from the amounts presented in the preceding offsetting table because these totals

may include collateral exchanged under an agreement that does not qualify as a master netting agreement or because the total amount of collateral held or pledged exceeds the net derivative fair values with the counterparty as of the balance sheet date due to timing or other factors, such as initial margin. To the extent not netted against the derivative fair values under a master netting agreement, the receivable for cash pledged is included in Other assets and the obligation for cash held is included in Other liabilities on our Consolidated Balance Sheet. Securities held from counterparties are not recognized on our balance sheet. Likewise securities we have pledged to counterparties remain on our balance sheet.

Certain derivative agreements contain various credit-risk related contingent provisions, such as those that require our debt to maintain a specified credit rating from one or more of the major credit rating agencies. If our debt ratings were to fall below such specified ratings, the counterparties to the derivative instruments could request immediate payment or demand immediate and ongoing full collateralization on derivative instruments in net liability positions. The aggregate fair value of all derivative instruments with credit-risk-related contingent features that were in a net liability position on December 31, 2016 was \$1.0 billion for which we had posted collateral of \$.6 billion in the normal course of business. The maximum additional amount of collateral we would have been required to post if the credit-risk-related contingent features underlying these agreements had been triggered on December 31, 2016 would be \$.4 billion.

NOTE 14 EARNINGS PER SHARE

Table 84: Basic and Diluted Earnings Per Common Share

In millions, except per share data	2016	2015	2014
Basic			
Net income	\$3,985	\$4,143	\$4,207
Less:			
Net income attributable to noncontrolling interests	82	37	23
Preferred stock dividends and discount accretion and redemptions	215	225	237
Net income attributable to common shares	3,688	3,881	3,947
Less:			
Dividends and undistributed earnings allocated to participating securities	26	17	11
Net income attributable to basic common shares	\$3,662	\$3,864	\$3,936
Basic weighted-average common shares outstanding	494	514	529
Basic earnings per common share (a)	\$ 7.42	\$ 7.52	\$ 7.44
Diluted			
Net income attributable to basic common shares	\$3,662	\$3,864	\$3,936
Less: Impact of BlackRock earnings per share dilution	12	18	18
Net income attributable to diluted common shares	\$3,650	\$3,846	\$3,918
Basic weighted-average common shares outstanding	494	514	529
Dilutive potential common shares	6	7	8
Diluted weighted-average common shares outstanding	500	521	537
Diluted earnings per common share (a)	\$ 7.30	\$ 7.39	\$ 7.30

(a) Basic and diluted earnings per share under the two-class method are determined on net income reported on the income statement less earnings allocated to nonvested restricted shares and restricted share units with nonforfeitable dividends and dividend rights (participating securities).

[Table of Contents](#)

NOTE 15 EQUITY

Preferred Stock

The following table provides the number of preferred shares issued and outstanding, the liquidation value per share and the number of authorized preferred shares that are available for future use.

Table 85: Preferred Stock – Authorized, Issued and Outstanding

	Liquidation value per share	Preferred Shares	
		2016	2015
December 31 Shares in thousands			
Authorized			
\$1 par value		16,593	16,588
Issued and outstanding			
Series B	\$ 40	1	1
Series O	\$100,000	10	10
Series P	\$100,000	15	15
Series Q	\$100,000	5	5
Series R	\$100,000	5	5
Series S	\$100,000	5	
Total issued and outstanding		41	36

The following table discloses information related to the preferred stock outstanding as of December 31, 2016.

Table 86: Terms of Outstanding Preferred Stock

Preferred Stock	Issue Date	Number of Depository Shares Issued	Fractional Interest in a share of preferred stock represented by each Depository Share	Dividend Dates (a)	Annual Per Share Dividend Rate	Optional Redemption Date (b)
Series B (c)	(c)	N/A	N/A	Quarterly from March 10 th	\$1.80	None
Series O (d)	July 27, 2011	1 million	1/100 th	Semi-annually beginning on February 1, 2012 until August 1, 2021	6.75% until August 1, 2021	August 1, 2021
				Quarterly beginning on November 1, 2021	3 Mo. LIBOR plus 3.678% per annum beginning on August 1, 2021	
Series P (d)	April 24, 2012	60 million	1/4,000 th	Quarterly beginning on August 1, 2012	6.125% until May 1, 2022 3 Mo. LIBOR plus 4.0675% per annum beginning on May 1, 2022	May 1, 2022
Series Q (d)	September 21, 2012	18 million	1/4,000 th	Quarterly beginning on December 1, 2012	5.375%	December 1, 2017
	October 9, 2012	1.2 million				
Series R (d)	May 7, 2013	500,000	1/100 th	Semi-annually beginning on December 1, 2013 until June 1, 2023	4.85% until June 1, 2023	June 1, 2023
				Quarterly beginning on September 1, 2023	3 Mo. LIBOR plus 3.04% per annum beginning June 1, 2023	
Series S (d)	November 1, 2016	525,000	1/100 th	Semi-annually beginning on May 1, 2017 until November 1, 2026	5.00% until November 1, 2026	November 1, 2026
				Quarterly beginning on February 1, 2027	3 Mo. LIBOR plus 3.30% per annum beginning November 1, 2026	

(a) Dividends are payable when, as, and if declared by our Board of Directors or an authorized committee of our Board of Directors.

(b) Redeemable at our option on or after the date stated. With the exception of the Series B preferred stock, redeemable at our option within 90 days of a regulatory capital treatment event as defined in the designations.

(c) Cumulative preferred stock. Holders of Series B preferred stock are entitled to 8 votes per share, which is equal to the number of full shares of common stock into which the Series B preferred stock is convertible. The Series B preferred stock was issued in connection with the consolidation of Pittsburgh National Corporation and Provident National Corporation in 1983.

(d) Non-Cumulative preferred stock.

Table of Contents

Our Series K preferred stock was issued on May 21, 2008. Dividends were paid at a rate of 8.25% until May 21, 2013 and at a rate of three month LIBOR plus 422 basis points beginning May 21, 2013. On May 4, 2015, we redeemed all 500,000 depositary shares representing interests in our Series K preferred stock and all 50,000 shares of Series K preferred stock underlying such depositary shares, resulting in a net outflow of \$500 million.

We have authorized but unissued Series H and Series I preferred stock. As described below in the Perpetual Trust Securities portion of the Noncontrolling Interests section of this Note, the PNC Preferred Funding Trust II securities are automatically exchangeable into shares of PNC Series I preferred stock under certain conditions relating to the capitalization or the financial condition of PNC Bank and upon the direction of the Office of the Comptroller of the Currency (OCC). The Series A preferred stock of PNC REIT Corp. is also automatically exchangeable under similar conditions into shares of PNC Series H preferred stock.

Warrants

We had 11.3 million and 13.4 million warrants outstanding as of December 31, 2016 and 2015, respectively. The reduction was due to 2.1 million warrants that were exercised during 2016. Each warrant entitles the holder to purchase one share of PNC common stock at an exercise price of \$67.33 per share. In accordance with the terms of the warrants, the warrants are exercised on a non-cash net basis with the warrant holder receiving PNC common shares determined based on the excess of the market price of PNC common stock on the exercise date over the exercise price of the warrant. In 2016, we issued 0.7 million common shares resulting from the exercise of the warrants. The issuance of these shares resulted in a reclassification within Capital surplus with no impact on our Shareholders' equity. These warrants were sold by the U.S. Treasury in a secondary public offering that closed on May 5, 2010 after the U.S. Treasury exchanged its TARP Warrant (issued on December 31, 2008 under the TARP Capital Purchase Program) for 16.9 million warrants. These warrants expire December 31, 2018.

Other Shareholders' Equity Matters

We have a dividend reinvestment and stock purchase plan. Holders of PNC common stock may participate in the plan, which provides that additional shares of common stock may be purchased at market value with reinvested dividends and voluntary cash payments. Common shares issued pursuant to this plan were 0.3 million shares for 2016, 2015 and 2014.

At December 31, 2016, we had reserved approximately 119 million common shares to be issued in connection with certain stock plans.

We repurchased 4.4 million shares in 2015 under the stock repurchase program that the Board of Directors approved

effective October 4, 2007. Effective March 31, 2015, the Board of Directors terminated this share repurchase program and effective April 1, 2015 the Board of Directors replaced it with a new stock repurchase program authorization in the amount of up to 100 million shares of PNC common stock which may be purchased on the open market or in privately negotiated transactions. Under this program, we repurchased 17.9 million shares in 2015 and 22.8 million shares in 2016. A maximum amount of 59.3 million shares remained available for repurchase under this program at December 31, 2016. This program will remain in effect until fully utilized or until modified, superseded or terminated.

Noncontrolling Interests

Perpetual Trust Securities

In December 2006, one of our indirect subsidiaries, PNC REIT Corp., sold \$500 million of 6.517% Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities (the "Trust I Securities") of PNC Preferred Funding Trust I ("Trust I"), in a private placement. PNC REIT Corp. had previously acquired the Trust I Securities from the trust in exchange for an equivalent amount of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Securities (the "LLC Preferred Securities"), of PNC Preferred Funding LLC, (the "LLC"), held by PNC REIT Corp. The LLC's initial material assets consist of indirect interests in mortgages and mortgage-related assets previously owned by PNC REIT Corp. The rate on these securities at December 31, 2016 was 2.613%.

In March 2007, the LLC, sold \$500 million of 6.113% Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities (the "Trust II Securities") of PNC Preferred Funding Trust II ("Trust II") in a private placement. In connection with the private placement, Trust II acquired \$500 million of LLC Preferred Securities, from the LLC. The rate on these securities at December 31, 2016 was 2.186%.

The Trust I Securities and Trust II Securities are redeemable in whole or in part at par (\$100,000 per security), plus any declared and unpaid dividends to the redemption date, on the quarterly dividend payment date in March 2017 and on the March quarterly dividend payment date in each fifth succeeding year (each, a "Five Year Date").

The Trust I Securities and Trust II Securities are also redeemable in whole, but not in part, on any quarterly dividend payment date that is not a Five Year Date at a redemption price equal to the sum of: (i) the greater of (A) \$100,000 per security or (B) the sum of present values of \$100,000 per security and all undeclared dividends for the dividend periods from the redemption date to and including the next succeeding Five Year Date, discounted to the redemption date on a quarterly basis at the 3-month USD LIBOR rate applicable to the dividend period immediately preceding such redemption date plus (ii) any declared and unpaid dividends to the redemption date.

Table of Contents

The Trust I Securities and Trust II Securities are also redeemable in whole, but not in part, on any quarterly dividend payment date that is not a Five Year Date in the case of certain tax, investment company or regulatory capital events at a redemption price of par plus declared and unpaid dividends to the redemption date.

Upon certain conditions relating to the capitalization or the financial condition of PNC Bank and upon the direction of the OCC, the Trust I Securities are automatically exchangeable into shares of Series F preferred stock of PNC Bank and the Trust II Securities are automatically exchangeable into shares of Series I preferred stock of PNC.

Any redemption is subject to compliance with the applicable Replacement Capital Covenant (see Table 87) and approval of the OCC.

PNC REIT Corp. owns 100% of the LLC's common voting securities. As a result, the LLC is an indirect subsidiary of PNC and is consolidated on our Consolidated Balance Sheet. Trust I and Trust II's investment in the LLC Preferred Securities is characterized as a noncontrolling interest on our Consolidated Balance Sheet since we are not the primary beneficiary of Trust I and Trust II. This noncontrolling interest totaled \$1.0 billion at December 31, 2016.

Information related to the capital covenants and contractual commitments of the perpetual trust securities, including limitations potentially imposed on PNC and PNC Bank's payment of dividends on their respective equity capital securities, follows.

Table 87: Summary of Replacement Capital Covenants of Perpetual Trust Securities

Replacement Capital Covenant (RCC) (a)	Trust	Description of Capital Covenants
Trust I RCC	Trust I	Neither we nor our subsidiaries (other than PNC Bank and its subsidiaries) would purchase the Trust Securities, the LLC Preferred Securities or the PNC Bank Preferred Stock unless such repurchases or redemptions are made from proceeds of the issuance of certain qualified securities and pursuant to the other terms and conditions set forth in the Trust I RCC.
Trust II RCC	Trust II	Until March 29, 2017, neither we nor our subsidiaries would purchase or redeem the Trust II Securities, the LLC Preferred Securities or the Series I Preferred Stock unless such repurchases or redemptions are made from proceeds of the issuance of certain qualified securities and pursuant to the other terms and conditions set forth in the Trust II RCC.

(a) As of December 31, 2016, each of the Trust I RCC and the Trust II RCC are for the benefit of PNC Capital Trust C as the sole holder of \$200 million of junior subordinated debentures issued in June 1998. See Note 10 Borrowed Funds for additional information regarding these debentures.

Table 88: Summary of Contractual Commitments of Perpetual Trust Securities

Trust	Description of Restrictions on Dividend Payments (a)
Trust I (b)	If full dividends are not paid in a dividend period, neither PNC Bank nor its subsidiaries will declare or pay dividends or other distributions with respect to, or redeem, purchase or acquire or make a liquidation payment with respect to, any of its equity capital securities during the next succeeding period (other than to holders of the LLC Preferred Securities and any parity equity securities issued by the LLC). (c)
Trust II (d)	If full dividends are not paid in a dividend period, PNC will not declare or pay dividends with respect to, or redeem, purchase or acquire, any of its equity capital securities during the next succeeding dividend period. (e)

(a) Applies to the applicable Trust Securities and the LLC Preferred Securities.

(b) Contractual commitments made by PNC Bank.

(c) Except: (i) in the case of dividends payable to subsidiaries of PNC Bank, to PNC Bank or another wholly-owned subsidiary of PNC Bank or (ii) in the case of dividends payable to persons that are not subsidiaries of PNC Bank, to such persons only if, (A) in the case of a cash dividend, PNC has first irrevocably committed to contribute amounts at least equal to such cash dividend or (B) in the case of in-kind dividends payable by PNC REIT Corp., PNC has committed to purchase such in-kind dividend from the applicable PNC REIT Corp. holders in exchange for a cash payment representing the market value of such in-kind dividend, and PNC has committed to contribute such in-kind dividend to PNC Bank.

(d) Contractual commitments made by PNC.

(e) Except for: (i) purchases, redemptions or other acquisitions of shares of capital stock of PNC in connection with any employment contract, benefit plan or other similar arrangement with or for the benefit of employees, officers, directors or consultants, (ii) purchases of shares of common stock of PNC pursuant to a contractually binding requirement to buy stock existing prior to the commencement of the extension period, including under a contractually binding stock repurchase plan, (iii) any dividend in connection with the implementation of a shareholders' rights plan, or the redemption or repurchase of any rights under any such plan, (iv) as a result of any exchange or conversion of any class or series of PNC's capital stock for any other class or series of PNC's capital stock, (v) the purchase of fractional interests in shares of PNC capital stock pursuant to the conversion or exchange provisions of such stock or the security being converted or exchanged or (vi) any stock dividends paid by PNC where the dividend stock is the same stock as that on which the dividend is being paid.

[Table of Contents](#)

See Note 23 Subsequent Events for discussion of our February 2017 announcement of our March 2017 redemption of the Trust I Securities and the Trust II Securities.

NOTE 16 OTHER COMPREHENSIVE INCOME

Details of other comprehensive income (loss) are as follows:

Table 89: Other Comprehensive Income

In millions	2016	2015	2014
Net unrealized gains (losses) on non-OTTI securities			
Increase in net unrealized gains (losses) on non-OTTI securities	\$(329)	\$(494)	\$ 410
Less: Net gains (losses) realized as a yield adjustment reclassified to investment securities interest income	24	27	31
Less: Net gains (losses) realized on sales of securities reclassified to noninterest income	16	48	4
Net increase (decrease), pre-tax	(369)	(569)	375
Effect of income taxes	135	208	(137)
Net increase (decrease), after-tax	(234)	(361)	238
Net unrealized gains (losses) on OTTI securities			
Increase in net unrealized gains (losses) on OTTI securities	61	(17)	68
Less: OTTI losses realized on securities reclassified to noninterest income	(2)	(4)	(11)
Net increase (decrease), pre-tax	63	(13)	79
Effect of income taxes	(23)	5	(29)
Net increase (decrease), after-tax	40	(8)	50
Net unrealized gains (losses) on cash flow hedge derivatives			
Increase in net unrealized gains (losses) on cash flow hedge derivatives	100	415	431
Less: Net gains (losses) realized as a yield adjustment reclassified to loan interest income	219	270	251
Less: Net gains (losses) realized as a yield adjustment reclassified to investment securities interest income	34	23	12
Less: Net gains (losses) realized on sales of securities reclassified to noninterest income		(5)	
Net increase (decrease), pre-tax	(153)	127	168
Effect of income taxes	56	(47)	(61)
Net increase (decrease), after-tax	(97)	80	107
Pension and other postretirement benefit plan adjustments			
Net pension and other postretirement benefit activity	(41)	(82)	(440)
Amortization of actuarial loss (gain) reclassified to other noninterest expense	50	38	4
Amortization of prior service cost (credit) reclassified to other noninterest expense	(8)	(10)	(10)
Net increase (decrease), pre-tax	1	(54)	(446)
Effect of income taxes		20	163
Net increase (decrease), after-tax	1	(34)	(283)
Other			
PNC's portion of BlackRock's OCI	(63)	(39)	(36)
Net investment hedge derivatives	186	60	54
Foreign currency translation adjustments	(182)	(63)	(57)
Net increase (decrease), pre-tax	(59)	(42)	(39)
Effect of income taxes	(46)	(8)	(6)
Net increase (decrease), after-tax	(105)	(50)	(45)
Total other comprehensive income, pre-tax	(517)	(551)	137
Total other comprehensive income, tax effect	122	178	(70)
Total other comprehensive income, after-tax	\$(395)	\$(373)	\$ 67

Table of Contents

Table 90: Accumulated Other Comprehensive Income (Loss) Components

In millions, after-tax	Net unrealized gains (losses) on non-OTTI securities	Net unrealized gains (losses) on OTTI securities	Net unrealized gains (losses) on cash flow hedge derivatives	Pension and other postretirement benefit plan adjustments	Other	Total
Balance at December 31, 2013	\$ 409	\$ 24	\$ 243	\$ (237)	\$ (3)	\$ 436
Net activity	238	50	107	(283)	(45)	67
Balance at December 31, 2014	\$ 647	\$ 74	\$ 350	\$ (520)	\$ (48)	\$ 503
Net activity	(361)	(8)	80	(34)	(50)	(373)
Balance at December 31, 2015	\$ 286	\$ 66	\$ 430	\$ (554)	\$ (98)	\$ 130
Net Activity	(234)	40	(97)	1	(105)	(395)
Balance at December 31, 2016	\$ 52	\$ 106	\$ 333	\$ (553)	\$ (203)	\$ (265)

NOTE 17 INCOME TAXES

The components of income tax expense are as follows:

Table 91: Components of Income Tax Expense

Year ended December 31 In millions	2016	2015	2014
Current			
Federal	\$ 871	\$ 927	\$1,084
State	71	33	68
Total current	942	960	1,152
Deferred			
Federal	301	320	220
State	25	84	35
Total deferred	326	404	255
Total	\$1,268	\$1,364	\$1,407

Significant components of deferred tax assets and liabilities are as follows:

Table 92: Deferred Tax Assets and Liabilities

December 31 – in millions	2016	2015
Deferred tax assets		
Allowance for loan and lease losses	\$ 976	\$1,032
Compensation and benefits	548	654
Partnership investments	307	295
Loss and credit carryforward	460	502
Accrued expenses	505	542
Other	252	320
Total gross deferred tax assets	3,048	3,345
Valuation allowance	(75)	(61)
Total deferred tax assets	2,973	3,284
Deferred tax liabilities		
Leasing	1,374	1,413
Goodwill and intangibles	312	320
Fixed assets	391	391
Net unrealized gains on securities and financial instruments	284	453
BlackRock basis difference	2,361	2,327
Other	617	542
Total deferred tax liabilities	5,339	5,446
Net deferred tax liability	\$2,366	\$2,162

Table of Contents

A reconciliation between the statutory and effective tax rates follows:

Table 93: Reconciliation of Statutory and Effective Tax Rates

Year ended December 31	2016	2015	2014
Statutory tax rate	35.0%	35.0%	35.0%
Increases (decreases) resulting from			
State taxes net of federal benefit	1.2	1.4	1.2
Tax-exempt interest	(2.4)	(2.3)	(2.2)
Life insurance	(1.9)	(1.7)	(1.7)
Dividend received deduction	(1.8)	(1.7)	(1.5)
Tax credits	(4.4)	(3.9)	(4.4)
Other	(1.6)	(2.0)(a)	(1.3)
Effective tax rate	24.1%	24.8%	25.1%

(a) Includes tax benefits associated with settlement of acquired entity tax contingencies.

The net operating loss carryforwards at December 31, 2016 and 2015 follow:

Table 94: Net Operating Loss Carryforwards

Dollars in millions	December 31 2016	December 31 2015	Expiration
Net Operating Loss Carryforwards:			
Federal	\$ 759	\$ 878	2032
State	\$ 2,345	\$ 2,272	2017 – 2036

The majority of the tax credit carryforwards expire in 2032 and were insignificant at December 31, 2016 and December 31, 2015. All federal and most state net operating loss and credit carryforwards are from acquired entities and utilization is subject to various statutory limitations. We anticipate that we will be able to fully utilize our carryforwards for federal tax purposes, but we have recorded an insignificant valuation allowance against certain state tax carryforwards as of December 31, 2016. If select uncertain tax positions were successfully challenged by a state, the state net operating losses listed in Table 94 could be reduced by an insignificant amount.

As of December 31, 2016, we had approximately \$.1 billion of earnings attributed to foreign subsidiaries that have been indefinitely reinvested for which no incremental U.S. income tax provision has been recorded.

Retained earnings included \$.1 billion at both December 31, 2016 and December 31, 2015 in allocations for bad debt deductions of former thrift subsidiaries for which no income tax has been provided. Under current law, if certain subsidiaries use these bad debt reserves for purposes other

than to absorb bad debt losses, they will be subject to Federal income tax at the current corporate tax rate.

A reconciliation of the beginning and ending balance of unrecognized tax benefits is as follows:

Table 95: Change in Unrecognized Tax Benefits

In millions	2016	2015	2014
Balance of gross unrecognized tax benefits at January 1	\$ 26	\$ 77	\$ 110
Increases:			
Positions taken during a prior period	14	17	
Decreases:			
Positions taken during a prior period	(14)	(9)	(27)
Settlements with taxing authorities		(52)	(1)
Reductions resulting from lapse of statute of limitations	(4)	(7)	(5)
Balance of gross unrecognized tax benefits at December 31	\$ 22	\$ 26	\$ 77
Favorable impact if recognized	\$ 18	\$ 20	\$ 64

It is reasonably possible that the balance of unrecognized tax benefits could increase or decrease in the next twelve months due to completion of tax authorities' exams or the expiration of statutes of limitations; however, the estimated amount is insignificant.

We are subject to U.S. federal income tax as well as income tax in most states and some foreign jurisdictions. Table 96 summarizes the status of significant IRS examinations of us.

Table 96: IRS Tax Examination Status

	Years under examination	Status at December 31
Federal	2011 – 2013	Completed
	2014 – 2015	Under exam

In addition, we are under continuous examinations by various state taxing authorities. With few exceptions, we are no longer subject to state and local and foreign income tax examinations by taxing authorities for periods before 2011. For all open audits, any potential adjustments have been considered in establishing our unrecognized tax benefits as of December 31, 2016.

Our policy is to classify interest and penalties associated with income taxes as income tax expense. For 2016 and 2015, the amount of gross interest and penalties was insignificant. At December 31, 2016 and 2015, the related amounts of accrued interest and penalties was also insignificant.

NOTE 18 REGULATORY MATTERS

We are subject to the regulations of certain federal, state, and foreign agencies and undergo periodic examinations by such regulatory authorities.

The ability to undertake new business initiatives (including acquisitions), the access to and cost of funding for new business initiatives, the ability to pay dividends, the ability to repurchase shares or other capital instruments, the level of deposit insurance costs, and the level and nature of regulatory oversight depend, in large part, on a financial institution's capital strength.

At December 31, 2016 and December 31, 2015, PNC and PNC Bank, our domestic banking subsidiary, were both considered "well capitalized," based on applicable U.S. regulatory capital ratio requirements.

The following table sets forth the Transitional Basel III regulatory capital ratios at December 31, 2016 and December 31, 2015 for PNC and PNC Bank.

Table 97: Basel Regulatory Capital (a)

	Amount		Ratios		"Well Capitalized" Requirements
December 31 Dollars in millions	2016	2015	2016	2015	
Risk-based capital					
Common equity Tier 1					
PNC	\$31,799	\$31,493	10.6%	10.6%	N/A
PNC Bank	\$27,896	\$27,484	9.7%	9.7%	6.5%
Tier 1					
PNC	\$36,101	\$35,522	12.0%	12.0%	6.0%
PNC Bank	\$29,495	\$29,425	10.2%	10.4%	8.0%
Total					
PNC	\$43,016	\$43,260	14.3%	14.6%	10.0%
PNC Bank	\$35,842	\$36,482	12.4%	12.9%	10.0%
Leverage					
PNC	\$36,101	\$35,522	10.1%	10.1%	N/A
PNC Bank	\$29,495	\$29,425	8.6%	8.7%	5.0%

(a) Calculated using the Transitional Basel III regulatory capital methodology applicable to us during both 2016 and 2015.

The principal source of parent company cash flow is the dividends it receives from its subsidiary bank, which may be impacted by the following:

- Capital needs,
- Laws and regulations,
- Corporate policies,
- Contractual restrictions, and
- Other factors.

Also, there are statutory and regulatory limitations on the ability of national banks to pay dividends or make other capital distributions. The amount available for dividend payments to the parent company by PNC Bank without prior regulatory approval was approximately \$1.7 billion at December 31, 2016.

Under federal law, a bank subsidiary generally may not extend credit to, or engage in other types of covered transactions (including the purchase of assets) with, the parent company or its non-bank subsidiaries on terms and under circumstances that are not substantially the same as comparable transactions with nonaffiliates. A bank subsidiary may not extend credit to, or engage in a covered transaction with, the parent company or a non-bank subsidiary if the aggregate amount of the bank's extensions of credit and other covered transactions with the parent company or non-bank subsidiary exceeds 10% of the capital stock and surplus of such bank subsidiary or the aggregate amount of the bank's extensions of credit and other covered transactions with the parent company and all non-bank subsidiaries exceeds 20% of the capital and surplus of such bank subsidiary. Such extensions of credit, with limited exceptions, must be at least fully collateralized in accordance with specified collateralization thresholds, with the thresholds varying based on the type of assets serving as collateral. In certain circumstances, federal regulatory authorities may impose more restrictive limitations.

Federal Reserve Board regulations require depository institutions to maintain cash reserves with a Federal Reserve Bank (FRB). At December 31, 2016, the balance outstanding at the FRB was \$25.1 billion.

NOTE 19 LEGAL PROCEEDINGS

We establish accruals for legal proceedings, including litigation and regulatory and governmental investigations and inquiries, when information related to the loss contingencies represented by those matters indicates both that a loss is probable and that the amount of loss can be reasonably estimated. Any such accruals are adjusted thereafter as appropriate to reflect changed circumstances. When we are able to do so, we also determine estimates of possible losses or ranges of possible losses, whether in excess of any related accrued liability or where there is no accrued liability, for disclosed legal proceedings ("Disclosed Matters," which are those matters disclosed in this Note 19). For Disclosed Matters where we are able to estimate such possible losses or ranges of possible losses, as of December 31, 2016, we estimate that it is reasonably possible that we could incur losses in excess of related accrued liabilities, if any, in an aggregate amount of up to approximately \$475 million. The estimates included in this amount are based on our analysis of currently available information and are subject to significant

Table of Contents

judgment and a variety of assumptions and uncertainties. As new information is obtained we may change our estimates. Due to the inherent subjectivity of the assessments and unpredictability of outcomes of legal proceedings, any amounts accrued or included in this aggregate amount may not represent the ultimate loss to us from the legal proceedings in question. Thus, our exposure and ultimate losses may be higher, and possibly significantly so, than the amounts accrued or this aggregate amount.

In our experience, legal proceedings are inherently unpredictable. One or more of the following factors frequently contribute to this inherent unpredictability: the proceeding is in its early stages; the damages sought are unspecified, unsupported or uncertain; it is unclear whether a case brought as a class action will be allowed to proceed on that basis or, if permitted to proceed as a class action, how the class will be defined; the other party is seeking relief other than or in addition to compensatory damages (including, in the case of regulatory and governmental investigations and inquiries, the possibility of fines and penalties); the matter presents meaningful legal uncertainties, including novel issues of law; we have not engaged in meaningful settlement discussions; discovery has not started or is not complete; there are significant facts in dispute; the possible outcomes may not be amenable to the use of statistical or quantitative analytical tools; predicting possible outcomes depends on making assumptions about future decisions of courts or regulatory bodies or the behavior of other parties; and there are a large number of parties named as defendants (including where it is uncertain how damages or liability, if any, will be shared among multiple defendants). Generally, the less progress that has been made in the proceedings or the broader the range of potential results, the harder it is for us to estimate losses or ranges of losses that it is reasonably possible we could incur.

As a result of these types of factors, we are unable, at this time, to estimate the losses that are reasonably possible to be incurred or ranges of such losses with respect to some of the matters disclosed, and the aggregate estimated amount provided above does not include an estimate for every Disclosed Matter. Therefore, as the estimated aggregate amount disclosed above does not include all of the Disclosed Matters, the amount disclosed above does not represent our maximum reasonably possible loss exposure for all of the Disclosed Matters. The estimated aggregate amount also does not reflect any of our exposure to matters not so disclosed, as discussed below under “Other.”

We include in some of the descriptions of individual Disclosed Matters certain quantitative information related to the plaintiff’s claim against us as alleged in the plaintiff’s pleadings or other public filings or otherwise publicly available information. While information of this type may provide insight into the potential magnitude of a matter, it

does not necessarily represent our estimate of reasonably possible loss or our judgment as to any currently appropriate accrual.

Some of our exposure in Disclosed Matters may be offset by applicable insurance coverage. We do not consider the possible availability of insurance coverage in determining the amounts of any accruals (although we record the amount of related insurance recoveries that are deemed probable up to the amount of the accrual) or in determining any estimates of possible losses or ranges of possible losses.

Interchange Litigation

Beginning in June 2005, a series of antitrust lawsuits were filed against Visa, MasterCard, and several major financial institutions, including cases naming National City (since merged into PNC) and its subsidiary, National City Bank of Kentucky (since merged into National City Bank which in turn was merged into PNC Bank). The plaintiffs in these cases are merchants operating commercial businesses throughout the U.S., as well as trade associations. Some of these cases (including those naming National City entities) were brought as class actions on behalf of all persons or business entities that have accepted Visa® or MasterCard®. The cases have been consolidated for pre-trial proceedings in the U.S. District Court for the Eastern District of New York under the caption *In re Payment Card Interchange Fee and Merchant-Discount Antitrust Litigation* (Master File No. 1:05-md-1720-JG-JO).

In July 2012, the parties entered into a memorandum of understanding with the class plaintiffs and an agreement in principle with certain individual plaintiffs with respect to a settlement of these cases, under which the defendants agreed to pay approximately \$6.6 billion collectively to the class and individual settling plaintiffs and agreed to changes in the terms applicable to their respective card networks (including an eight-month reduction in default credit interchange rates). The parties entered into a definitive agreement with respect to this settlement in October 2012. The court granted final approval of the settlement in December 2013. Several objectors appealed the order of approval to the U.S. Court of Appeals for the Second Circuit, which issued an order in June 2016, reversing approval of the settlement and remanding for further proceedings. In November 2016, the plaintiffs filed a petition for a writ of certiorari with the U.S. Supreme Court to challenge the court of appeal’s decision, which is still pending.

As a result of the reversal of the approval of the settlement, the class actions have resumed in the district court. In November 2016, the district court appointed separate interim class counsel for a proposed class seeking damages and a proposed class seeking equitable (injunctive) relief. In February 2017, each of these counsel filed a proposed amended and supplemental complaint on behalf of its

respective proposed class. These complaints make similar allegations, including that the defendants conspired to monopolize and to fix the prices for general purpose card network services, that the restructuring of Visa and MasterCard, each of which included an initial public offering, violated the antitrust laws, and that the defendants otherwise imposed unreasonable restraints on trade, resulting in the payment of inflated interchange fees and other fees, which also violated the antitrust laws. In their complaints, collectively the plaintiffs seek, among other things, injunctive relief, unspecified damages (trebled under the antitrust laws) and attorneys' fees. PNC is named as a defendant in the complaint seeking damages but is not named as a defendant in the complaint that seeks equitable relief.

National City and National City Bank entered into judgment and loss sharing agreements with Visa and certain other banks with respect to all of the above referenced litigation. We were not originally named as defendants in any of the Visa or MasterCard related antitrust litigation nor were we initially parties to the judgment or loss sharing agreements. However, we became responsible for National City's and National City Bank's position in the litigation and responsibilities under the agreements through our acquisition of National City. In addition, following Visa's reorganization in 2007 in contemplation of its initial public offering, U.S. Visa members received shares of Class B Visa common stock, convertible upon resolution of specified litigation, including the remaining litigation described above, into shares of Class A Visa common stock, with the conversion rate adjusted to reflect amounts paid or escrowed to resolve the specified litigation, and also remained responsible for indemnifying Visa against the specified litigation. Our Class B Visa common stock is all subject to this conversion adjustment provision, and we are now responsible for the indemnification obligations of our predecessors as well as ourselves. In March 2011, we entered into a MasterCard Settlement and Judgment Sharing Agreement with MasterCard and other financial institution defendants and an Omnibus Agreement Regarding Interchange Litigation Sharing and Settlement Sharing with Visa, MasterCard and other financial institution defendants. The Omnibus Agreement, in substance, apportions resolution of the claims in this litigation into a Visa portion and a MasterCard portion, with the Visa portion being two-thirds and the MasterCard portion being one-third. This apportionment only applies in the case of either a global settlement involving all defendants or an adverse judgment against the defendants, to the extent that damages either are related to the merchants' inter-network conspiracy claims or are otherwise not attributed to specific MasterCard or Visa conduct or damages. The MasterCard portion (or any MasterCard-related liability not subject to the Omnibus Agreement) will then be apportioned under the MasterCard Settlement and Judgment Sharing Agreement among MasterCard and PNC and the other financial institution defendants that are parties to this agreement. The responsibility for the Visa portion (or any Visa-related

liability not subject to the Omnibus Agreement) will be apportioned under the pre-existing indemnification responsibilities and judgment and loss sharing agreements.

CBNV Mortgage Litigation

Between 2001 and 2003, on behalf of either individual plaintiffs or proposed classes of plaintiffs, several separate lawsuits were filed in state and federal courts against Community Bank of Northern Virginia (CBNV), a PNC Bank predecessor, and other defendants asserting claims arising from second mortgage loans made to the plaintiffs. The state lawsuits were removed to federal court and, with the lawsuits that had been filed in federal court, were consolidated for pre-trial proceedings in a multidistrict litigation (MDL) proceeding in the U.S. District Court for the Western District of Pennsylvania under the caption *In re: Community Bank of Northern Virginia Lending Practices Litigation* (No. 03-0425 (W.D. Pa.), MDL No. 1674). In January 2008, the Pennsylvania district court issued an order sending back to the General Court of Justice, Superior Court Division, for Wake County, North Carolina the claims of two proposed class members, which have subsequently been dismissed.

In October 2011, the plaintiffs in the MDL proceeding filed a joint consolidated amended class action complaint covering all of the class action lawsuits pending in this proceeding. The amended complaint names CBNV, another bank, and purchasers of loans originated by CBNV and the other bank (including Residential Funding Company, LLC (RFC)) as defendants. (In December 2013, the Chapter 11 bankruptcy proceeding involving RFC was completed with the company being liquidated and claims against the company being resolved, including, through a settlement between the plaintiffs and RFC approved in November 2013, the claims in these lawsuits.) The principal allegations in the amended complaint are that a group of persons and entities collectively characterized as the "Shumway/Bapst Organization" referred prospective second residential mortgage loan borrowers to CBNV and the other bank, that CBNV and the other bank charged these borrowers improper title and loan fees at loan closings, that the disclosures provided to the borrowers at loan closings were inaccurate, and that CBNV and the other bank paid some of the loan fees to the Shumway/Bapst Organization as purported "kickbacks" for the referrals. The amended complaint asserts claims for violations of the Real Estate Settlement Procedures Act (RESPA), the Truth in Lending Act (TILA), as amended by the Home Ownership and Equity Protection Act (HOEPA), and the Racketeer Influenced and Corrupt Organizations Act (RICO).

The amended complaint seeks to certify a class of all borrowers who obtained a second residential non-purchase money mortgage loan, secured by their principal dwelling, from either CBNV or the other defendant bank, the terms of which made the loan subject to HOEPA. The plaintiffs seek, among other things, unspecified damages (including treble

Table of Contents

damages under RICO and RESPA), rescission of loans, declaratory and injunctive relief, interest, and attorneys' fees. In November 2011, the defendants filed a motion to dismiss the amended complaint. In June 2013, the court granted in part and denied in part the motion, dismissing the claims of any plaintiff whose loan did not originate or was not assigned to CBNV, narrowing the scope of the RESPA claim, and dismissing several of the named plaintiffs for lack of standing. The court also dismissed the claims against the other lender defendant on jurisdictional grounds. The limitation of the potential class to CBNV borrowers reduces its size to approximately 26,500 from the 50,000 members alleged in the amended complaint. Also in June 2013, the plaintiffs filed a motion for class certification, which was granted in July 2013. In July 2015, the U.S. Court of Appeals for the Third Circuit affirmed the grant of class certification by the Pennsylvania district court. We moved for a rehearing of the appeal, which was denied in October 2015. In November 2015, we filed a petition for a writ of certiorari with the U.S. Supreme Court seeking review of the decision of the court of appeals, which was denied in February 2016. We filed motions with the district court for decertification and summary judgment in April 2016.

In August 2016, we reached a settlement with the plaintiffs. In December 2016, the court granted final approval of the settlement. Under this settlement, in February 2017, the matter was submitted to binding arbitration before a panel of three arbitrators, who will determine whether we will pay the plaintiff class either an amount (inclusive of class counsel fees and expenses) we proposed (\$24 million) or an amount proposed by the plaintiffs (\$70 million), with no discretion to choose any other amount. The arbitrators are required to reach a decision by the end of March 2017.

Overdraft Litigation

Beginning in October 2009, PNC Bank, National City Bank and RBC Bank (USA) have been named in lawsuits brought as class actions relating to the manner in which they charged overdraft fees on ATM and debit transactions to customers and related matters. All but two of these lawsuits, both pending against RBC Bank (USA), have been settled. The following is a description of the remaining pending lawsuits.

The pending lawsuits naming RBC Bank (USA), along with similar lawsuits pending against other banks, have been consolidated for pre-trial proceedings in the U.S. District Court for the Southern District of Florida (the MDL Court) under the caption *In re Checking Account Overdraft Litigation* (MDL No. 2036, Case No. 1:09-MD-02036-JLK). A consolidated amended complaint was filed in December 2010 that consolidated all of the claims in these MDL Court cases. The first case against RBC Bank (USA) pending in the MDL Court (*Dasher v. RBC Bank* (10-cv-22190-JLK)) was filed in July 2010 in the U.S. District Court for the Southern District of Florida. The other case against RBC Bank (USA)

(*Avery v. RBC Bank* (Case No. 10-cv-329)) was originally filed in North Carolina state court in July 2010 and was removed to the U.S. District Court for the Eastern District of North Carolina before being transferred to the MDL Court. A consolidated amended complaint was filed in November 2014.

These cases seek to certify multi-state classes of customers for the common law claims described below (covering all states in which RBC Bank (USA) had retail branch operations during the class periods), and subclasses of RBC Bank (USA) customers with accounts in North Carolina branches, with each subclass being asserted for purposes of claims under those states' consumer protection statutes. No class periods are stated in any of the complaints, other than for the applicable statutes of limitations, which vary by state and claim.

The customer agreements with the plaintiffs in these two cases contain arbitration provisions. RBC Bank (USA)'s original motion in *Dasher* to compel arbitration under these provisions was denied by the MDL Court. This denial was appealed to the U.S. Court of Appeals for the Eleventh Circuit. While this appeal was pending, the U.S. Supreme Court issued its decision in *AT&T Mobility v. Concepcion*, following which the court of appeals vacated the MDL Court's denial of the arbitration motion and remanded to the MDL Court for further consideration in light of the *Concepcion* decision. RBC Bank (USA)'s motion to compel arbitration, now covering both *Dasher* and *Avery*, was denied in January 2013. We appealed the denial of the motion to the U.S. Court of Appeals for the Eleventh Circuit, which, in February 2014, affirmed the order of the district court denying arbitration. We filed a motion asking the court of appeals to reconsider its decision, which it denied in March 2014. In December 2014, we filed a motion to compel arbitration as to the claims of the plaintiff in *Dasher* based on an arbitration provision added to the PNC account agreement in 2013. In August 2015, the district court denied our motion. Later in August 2015, we appealed the denial of our arbitration motion to the court of appeals. The appeal is pending. In December 2014, we filed a motion to dismiss the complaint. In February 2016, the district court denied our motion.

The consolidated amended complaint alleges that the banks engaged in unlawful practices in assessing overdraft fees arising from electronic point-of-sale and ATM debits. The principal practice challenged in these lawsuits is the banks' purportedly common policy of posting debit transactions on a daily basis from highest amount to lowest amount, thereby allegedly inflating the number of overdraft fees assessed. Other practices challenged include the failure to decline to honor debit card transactions where the account has insufficient funds to cover the transactions.

The plaintiffs assert claims for breach of contract and the covenant of good faith and fair dealing; unconscionability;

conversion; unjust enrichment; and violation of the consumer protection statute of North Carolina. The plaintiffs seek, among other things, restitution of overdraft fees paid, unspecified actual and punitive damages (with actual damages, in some cases, trebled under state law), pre-judgment interest, attorneys' fees, and declaratory relief finding the overdraft policies to be unfair and unconscionable.

Fulton Financial

In 2009, Fulton Financial Advisors, N.A. filed lawsuits against PNC Capital Markets, LLC and NatCity Investments, Inc. in the Court of Common Pleas of Lancaster County, Pennsylvania arising out of Fulton's purchase of auction rate certificates (ARCs) through PNC and NatCity. Each of the lawsuits alleges violations of the Pennsylvania Securities Act, negligent misrepresentation, negligence, breach of fiduciary duty, common law fraud, and aiding and abetting common law fraud in connection with the purchase of the ARCs by Fulton. Specifically, Fulton alleges that, as a result of the decline of financial markets in 2007 and 2008, the market for ARCs became illiquid; that PNC and NatCity knew or should have known of the increasing threat of the ARC market becoming illiquid; and that PNC and NatCity did not inform Fulton of this increasing threat, but allowed Fulton to continue to purchase ARCs, to Fulton's detriment. In its complaints, Fulton alleges that it then held ARCs purchased through PNC for a price of more than \$123 million and purchased through NatCity for a price of more than \$175 million. In each complaint, Fulton seeks, among other things, unspecified actual and punitive damages, rescission, attorneys' fees and interest.

In the case against PNC (*Fulton Financial Advisors, N.A. v. PNC Capital Markets, LLC* (CI 09-10838)), PNC filed preliminary objections to Fulton's complaint, which were denied. NatCity removed the case against it to the U.S. District Court for the Eastern District of Pennsylvania (*Fulton Financial Advisors, N.A. v. NatCity Investments, Inc.* (No. 5:09-cv-04855)), and in November 2009 filed a motion to dismiss the complaint. In October 2013, the court granted the motion to dismiss with respect to claims under the Pennsylvania Securities Act and for negligent misrepresentation, common law fraud, and aiding and abetting common law fraud and denied the motion with respect to claims for negligence and breach of fiduciary duty. Fulton filed an amended complaint in December 2013, reasserting its negligence and breach of fiduciary duty claims and adding a new claim under the Pennsylvania Securities Act. Fulton and NatCity filed motions for summary judgment in February 2015. In January 2017, the court granted NatCity's motion for summary judgment with respect to the claim under the Pennsylvania Securities Act and otherwise denied both Fulton's and NatCity's motions.

Captive Mortgage Reinsurance Litigation

In December 2011, a lawsuit (*White, et al. v. The PNC Financial Services Group, Inc., et al.* (Civil Action No. 11-7928)) was filed against PNC (as successor in interest to National City Corporation and several of its subsidiaries) and several mortgage insurance companies in the U.S. District Court for the Eastern District of Pennsylvania. This lawsuit, which was brought as a class action, alleges that National City structured its program of reinsurance of private mortgage insurance in such a way as to avoid a true transfer of risk from the mortgage insurers to National City's captive reinsurer. The plaintiffs allege that the payments from the mortgage insurers to the captive reinsurer constitute kickbacks, referral payments, or unearned fee splits prohibited under the Real Estate Settlement Procedures Act (RESPA), as well as common law unjust enrichment. The plaintiffs claim, among other things, that from the beginning of 2004 until the end of 2010 National City's captive reinsurer collected from the mortgage insurance company defendants at least \$219 million as its share of borrowers' private mortgage insurance premiums and that its share of paid claims during this period was approximately \$12 million. The plaintiffs seek to certify a nationwide class of all persons who obtained residential mortgage loans originated, funded or originated through correspondent lending by National City or any of its subsidiaries or affiliates between January 1, 2004 and the present and, in connection with these mortgage loans, purchased private mortgage insurance and whose residential mortgage loans were included within National City's captive mortgage reinsurance arrangements. Plaintiffs seek, among other things, statutory damages under RESPA (which include treble damages), restitution of reinsurance premiums collected, disgorgement of profits, and attorneys' fees. In August 2012, the district court directed the plaintiffs to file an amended complaint, which the plaintiffs filed in September 2012. In November 2012, we filed a motion to dismiss the amended complaint. The court dismissed, without prejudice, the amended complaint in June 2013 on statute of limitations grounds. A second amended complaint, in response to the court's dismissal order, was filed in July 2013. We filed a motion to dismiss the second amended complaint, also in July 2013. In August 2014, the court denied the motion to dismiss. We then filed an uncontested motion to stay all proceedings pending the outcome of another matter then on appeal before the U.S. Court of Appeals for the Third Circuit that involves overlapping issues. In September 2014, the district court granted the stay. In October 2014, the court of appeals decided that other matter, holding that the RESPA claims in that case were barred by the statute of limitations. We then filed a motion for reconsideration of the denial of our motion to dismiss in light of the court of appeals' decision. In January 2015, the district court denied our motion. In March 2015, the parties stipulated to, and the court ordered, a stay of all proceedings pending the outcome of a new other matter currently on appeal before the U.S. Court of Appeals for the Third Circuit that also involves overlapping issues. In February 2016, the court of appeals in the other matter issued a decision favorable to our position.

Table of Contents

In September 2016, the plaintiffs moved to lift the stay and for permission to file a Third Amended Class Action Complaint to add claims under the Racketeer Influenced and Corrupt Organizations Act (RICO) and to assert that the RESPA claim is not barred by the statute of limitations under the “continuing violation theory” because every acceptance of a reinsurance premium is a new occurrence for these purposes. In January 2017, the court denied the plaintiffs’ motion to amend to add a RICO claim, but granted their motion permitting them to rely on the continuing violation theory to assert claims under RESPA. We have filed a petition to certify this issue for interlocutory appeal to U.S. Court of Appeals for the Third Circuit and have sought a stay in the district court pending an appeal.

Residential Mortgage-Backed Securities Indemnification Demands

We have received indemnification demands from several entities sponsoring residential mortgage-backed securities and their affiliates where purchasers of the securities have brought litigation against the sponsors and other parties involved in the securitization transactions. National City Mortgage had sold whole loans to the sponsors or their affiliates that were allegedly included in certain of these securitization transactions. According to the indemnification demands, the plaintiffs’ claims in these lawsuits are based on alleged misstatements and omissions in the offering documents for these transactions. The indemnification demands assert that agreements governing the sale of these loans or the securitization transactions to which National City Mortgage was a party require us to indemnify the sponsors and their affiliates for losses suffered in connection with these lawsuits. The parties have settled several of these cases. There has not been any determination that the parties seeking indemnification have any liability to the plaintiffs in the other lawsuits and the amount, if any, for which we are responsible in the settled cases has not been determined.

Patent Infringement Litigation

In June 2013, a lawsuit (*Intellectual Ventures I LLC and Intellectual Ventures II LLC vs. PNC Financial Services Group, Inc., and PNC Bank, NA*, (Case No. 2:13-cv-00740-AJS)(*IV 1*)) was filed in the U.S. District Court for the Western District of Pennsylvania against PNC and PNC Bank for patent infringement. The plaintiffs allege that multiple systems by which PNC and PNC Bank provide online banking services and other services via electronic means infringe five patents owned by the plaintiffs. The plaintiffs seek, among other things, a declaration that PNC and PNC Bank are infringing each of the patents, damages for past and future infringement, and attorneys’ fees. In July 2013, we filed an answer with counterclaims, denying liability and seeking declarations that the asserted patents are invalid and that PNC has not infringed them. In November 2013, PNC filed Covered Business Method/Post Grant Review petitions in the U.S. Patent & Trademark Office (PTO) seeking to

invalidate all five of the patents. In December 2013, the court dismissed the plaintiffs’ claims as to two of the patents and entered a stay of the lawsuit pending the PTO’s consideration of PNC’s review petitions, including any appeals from decisions of the PTO. The PTO instituted review proceedings in May 2014 on four of the five patents at issue, finding that the subject matter of those patents was “more likely than not” unpatentable. The court had previously dismissed the plaintiffs’ claims with respect to the one patent not selected for review by the PTO. In separate decisions issued in April and May 2015, the PTO invalidated all claims with respect to the patents that were still at issue in *IV 1*. In July 2015, in an appeal arising out of proceedings against a different defendant relating to some of the same patents, the U.S. Court of Appeals for the Federal Circuit affirmed the invalidity of the two patents at issue in both *IV 1* and the Federal Circuit appeal. As a result, all of the patents at issue in *IV 1* not subject to the prior dismissal have been invalidated. In October 2015, the plaintiffs moved to dismiss with prejudice their claims arising from the patents that had not been subject to prior dismissal in *IV 1*, which the court granted.

In June 2014, Intellectual Ventures filed a second lawsuit (*Intellectual Ventures I LLC and Intellectual Ventures II LLC v. PNC Bank Financial Services Group, Inc., PNC Bank NA, and PNC Merchant Services Company, LP* (Case No. 2:14-cv-00832-AKS)(*IV 2*)) in the same court as *IV 1*. This lawsuit alleges that PNC defendants infringed five patents, including the patent dismissed in *IV 1* that is not subject to PTO review, and relates generally to the same technology and subject matter as the first lawsuit. The court has stayed this case, which was consolidated with *IV 1* in August 2014, pending the PTO’s consideration of various review petitions of the patents at issue in this case, as well as the review of the patents at issue in *IV 1* and the appeals from any PTO decisions. In April 2015, the PTO, in a proceeding brought by another defendant, upheld the patentability of one of the patents at issue in *IV 2*. That decision was appealed to the Federal Circuit, which affirmed it in February 2016. After decisions adverse to the patent holder in the PTO and several U.S. District Courts on three of the remaining patents, in October 2015, the plaintiffs voluntarily dismissed without prejudice their claims with respect to those three patents, leaving two patents at issue in this lawsuit. The plaintiffs moved to deconsolidate *IV 1* and *IV 2* and to lift the stay. The court denied this motion in October 2015, continuing the stay until certain court proceedings against other defendants related to the same patents are resolved.

Mortgage Repurchase Litigation

In December 2013, Residential Funding Company, LLC (RFC) filed a lawsuit in the U.S. District Court for the District of Minnesota against PNC Bank, as alleged successor in interest to National City Mortgage Co., NCMC Newco, Inc., and North Central Financial Corporation (*Residential Funding Company, LLC v. PNC Bank, N.A., et al.* (Civil No. 13-3498- JRT-JSM)). In its complaint, RFC alleges that PNC Bank

Table of Contents

(through predecessors) sold \$6.5 billion worth of residential mortgage loans to RFC during the timeframe at issue (approximately May 2006 through September 2008), a portion of which were allegedly materially defective, resulting in damages and losses to RFC. RFC alleges that PNC Bank breached representations and warranties made under seller contracts in connection with these sales. The complaint asserts claims for breach of contract and indemnification. RFC seeks, among other things, monetary damages, costs, and attorney's fees. In March 2014, we filed a motion to dismiss the complaint. RFC then filed an amended complaint, as well as a motion to transfer the lawsuit to the U.S. Bankruptcy Court for the Southern District of New York. In April 2014, we moved to dismiss the amended complaint. In June 2014, RFC withdrew its motion to transfer the lawsuit. In October 2014, the court granted our motion to dismiss with prejudice the breach of contract claims in the complaint with respect to loans sold before May 14, 2006 and otherwise denied our motion to dismiss. In January 2015, the lawsuit was consolidated for pre-trial purposes with other lawsuits pending in the District of Minnesota filed by RFC against other originators of mortgage loans that it had purchased. The consolidated action is captioned *In Re: RFC and RESCAP Liquidating Trust Litigation* (Civil File No. 13-cv-3451 (SRN/JJK/HB)). In September 2015, RFC filed a motion for leave to file a second amended complaint to add claims based on an asserted principle that loan sellers had a continuing contractual obligation to provide notice of loan defects, which RFC claims should allow it to assert contract claims as to pre-May 14, 2006 loans notwithstanding the prior dismissal of those claims with prejudice. In November 2015, the court granted RFC's motion, and RFC filed its second amended complaint thereafter.

In January 2017, the ResCap Liquidating Trust (RLT) filed a lawsuit in the U.S. District Court for the District of Minnesota against PNC Bank, as successor in interest to Community Bank of Northern Virginia (CBNV) (*ResCap Liquidating Trust v. PNC Bank, N.A.* (No. 17-cv-196-JRT-FLN)). In its complaint, the RLT alleges that PNC Bank (as successor to CBNV) sold over 21,300 mortgage loans to RFC, with an original principal balance in excess of \$789 million, which were included in RFC-sponsored RMBS trusts for which liabilities were settled in RFC's bankruptcy. The RLT alleges that PNC Bank (as successor to CBNV) materially breached its representation and warranties made to RFC in connection with the sale of the loans, resulting in damages and losses to RFC. The complaint asserts claims for breach of contract and indemnification and seeks, among other things, monetary damages, costs, and attorney's fees. The action has been consolidated for pre-trial purposes into *In Re: RFC and RESCAP Liquidating Trust Litigation*.

Pre-need Funeral Arrangements

National City Bank and PNC Bank are defendants in a lawsuit filed in the U.S. District Court for the Eastern District of

Missouri under the caption *Jo Ann Howard, P.C., et al. v. Cassity, et al.* (No. 4:09-CV-1252-ERW) arising out of trustee services provided by Allegiant Bank, a National City Bank and PNC Bank predecessor, with respect to Missouri trusts that held pre-need funeral contract assets. Under a pre-need funeral contract, a customer pays an amount up front in exchange for payment of funeral expenses following the customer's death. In a number of states, including Missouri, pre-need funeral contract sellers are required to deposit a portion of the proceeds of the sale of pre-need funeral contracts in a trust account.

The lawsuit was filed in August 2009 by the Special Deputy Receiver for three insolvent affiliated companies, National Prearranged Services, Inc. a seller of pre-need funeral contracts (NPS), Lincoln Memorial Life Insurance Company (Lincoln), and Memorial Service Life Insurance Company (Memorial). Seven individual state life and health insurance guaranty associations, who claim they are liable under state law for payment of certain benefits under life insurance policies sold by Lincoln and Memorial, and the National Organization of Life & Health Guaranty Associations have also joined the action as plaintiffs. In addition to National City Bank and PNC Bank (added following filing of the lawsuit as successor-in-interest to National City Bank) (the PNC defendants), other defendants included members of the Cassity family, who controlled NPS, Lincoln, and Memorial; officers and directors of NPS, Lincoln, and Memorial; auditors and attorneys for NPS, Lincoln, and Memorial; the trustees of each of the trusts that held pre-need funeral contract assets; and the investment advisor to the Pre-need Trusts. NPS retained several banks to act as trustees for the trusts holding NPS pre-need funeral contract assets (the NPS Trusts), with Allegiant Bank acting as one of these trustees with respect to seven Missouri NPS Trusts. All of the other defendants have settled with the plaintiffs, are otherwise no longer a party to the lawsuit, or are insolvent.

In their Third Amended Complaint, filed in 2012 following the granting by the court in part of motions to dismiss made by the PNC defendants and the other NPS Trust trustees, the plaintiffs allege that Allegiant Bank breached its fiduciary duties and acted negligently as the trustee for the Missouri NPS Trusts. In part as a result of these breaches, the plaintiffs allege, members of the Cassity family, acting in concert with other defendants, were able to improperly remove millions of dollars from the NPS Trusts, which in turn caused NPS, Lincoln, and Memorial to become insolvent. The complaint alleges \$600 million in present and future losses to the plaintiffs due to the insolvency of NPS, Lincoln, and Memorial. The lawsuit seeks, among other things, unspecified actual and punitive damages, various equitable remedies including restitution, attorneys' fees, costs of suit and interest.

In July 2013, five of the six defendants in a parallel federal criminal action, including two members of the Cassity family, entered into plea agreements with the U.S. to resolve criminal

Table of Contents

charges arising out of their conduct at NPS, Lincoln and Memorial. In August 2013, after a jury trial, the sixth defendant, the investment advisor to the NPS Trusts, was convicted on all criminal counts against him. The criminal charges against the defendants alleged, among other things, a scheme to defraud Allegiant Bank and the other trustees of the NPS Trusts.

In May 2014, the court granted the plaintiffs' motion to disallow the PNC defendants' affirmative defense relating to the plaintiffs' alleged failure to mitigate damages. In July 2014, the PNC defendants' motion for reconsideration was denied. In September 2014, the plaintiffs filed a motion seeking leave to amend their complaint to reassert aiding and abetting claims, previously dismissed by the court in 2012. The court denied this motion in December 2014. Also in December 2014, the court granted in part and denied in part the PNC defendants' motion for summary judgment.

In March 2015, following a jury trial, the court entered a judgment against the PNC defendants in the amount of \$356 million in compensatory damages and \$36 million in punitive damages. In April 2015, the plaintiffs filed motions with the court seeking \$179 million in pre-judgment interest. Also, in April 2015, the PNC defendants filed motions with the court to reduce the compensatory damages by the amounts paid in settlement by other defendants, to strike the punitive damages award, for judgment as a matter of law, and for a new trial. In November 2015, the court granted the motion to reduce the compensatory damages by amounts paid in settlement by other defendants and denied the other motions by the PNC defendants, with the judgment being reduced as a result to a total of \$289 million, and also denied the plaintiffs' motion for pre-judgment interest. In December 2015, the PNC defendants appealed the judgment to the U.S. Court of Appeals for the Eighth Circuit. Also in December 2015, the plaintiffs cross-appealed from the court's orders reducing the judgment by amounts paid in settlement by other defendants, denying plaintiffs' motion for pre-judgment interest, and dismissing the plaintiffs' aiding and abetting claims. These appeals were argued before the court of appeals in September 2016.

DD Growth Premium Master Fund

In June 2014, the liquidators of the DD Growth Premium Master Fund (DD Growth) issued a Plenary Summons in the High Court, Dublin, Ireland, in connection with the provision of administration services to DD Growth by a European subsidiary (GIS Europe) of PNC Global Investment Servicing (PNC GIS), a former subsidiary of PNC. The Plenary Summons was served on GIS Europe in June 2015.

In July 2010, we completed the sale of PNC GIS to The Bank of New York Mellon Corporation (BNY Mellon). Beginning in February 2014, BNY Mellon has provided notice to us of three indemnification claims pursuant to the stock purchase

agreement related to DD Growth. Our responsibility for this litigation is subject to the terms and limitations included in the indemnification provisions of the stock purchase agreement.

In its Statement of Claim, which the liquidator served in July 2015, the liquidator alleges, among other things, that GIS Europe breached its contractual duties to DD Growth as well as an alleged duty of care to DD Growth, and to investors in DD Growth, and makes claims of breach of the administration and accounting services agreement, breach of the middle office agreement, negligence, gross negligence, and breach of duty. The statement of claim further alleges claims for loss in the net asset value of the fund and loss of certain subscriptions paid into the fund in the amounts of \$283 million and \$134 million respectively. The statement of claim seeks, among other things, damages, costs, and interest.

Other Regulatory and Governmental Inquiries

We are the subject of investigations, audits and other forms of regulatory and governmental inquiry covering a broad range of issues in our consumer, mortgage, brokerage, securities and other financial services businesses, as well as other aspects of our operations. In some cases, these inquiries are part of reviews of specified activities at multiple industry participants; in others, they are directed at PNC individually. These inquiries, including those described below, may lead to administrative, civil or criminal proceedings, and possibly result in remedies including fines, penalties, restitution, or alterations in our business practices, and in additional expenses and collateral costs and other consequences. These inquiries may result in significant reputational harm or other adverse collateral consequences even if direct resulting remedies are not material to us.

- One area of significant regulatory and governmental focus has been mortgage lending and servicing. Numerous federal and state governmental, legislative and regulatory authorities are investigating practices in this area. We have received inquiries from, or is the subject of investigations by, a broad range of governmental, legislative and regulatory authorities relating to our activities in this area and is cooperating with these investigations and inquiries. As a result of the number and range of authorities conducting the investigations and inquiries, as well as the nature of these types of investigations and inquiries, among other factors, we cannot at this time predict the ultimate overall cost to or effect on us from potential governmental, legislative or regulatory actions arising out of these investigations and inquiries.
- In April 2011, as a result of a publicly-disclosed interagency horizontal review of residential mortgage servicing operations at fourteen federally regulated mortgage servicers, PNC entered into a consent order with the Board of Governors of the Federal Reserve System and PNC Bank entered into a consent order with the

Office of the Comptroller of the Currency. Collectively, these consent orders describe certain foreclosure-related practices and controls that the regulators found to be deficient and require PNC and PNC Bank to, among other things, develop and implement plans and programs to enhance our residential mortgage servicing and foreclosure processes, retain an independent consultant to review certain residential mortgage foreclosure actions, take certain remedial actions, and oversee compliance with the orders and the new plans and programs. In connection with these orders, we established a Compliance Committee of the Boards of Directors of PNC and PNC Bank to monitor and coordinate PNC's and PNC Bank's implementation of the commitments under the orders. PNC and PNC Bank are executing Action Plans designed to meet the requirements of the orders. Consistent with the orders, we also engaged an independent consultant to conduct a review of certain residential foreclosure actions, including those identified through borrower complaints, and identify whether any remedial actions for borrowers are necessary. In early 2013, PNC and PNC Bank, along with twelve other residential mortgage servicers, reached agreements with the OCC and the Federal Reserve to amend these consent orders. Pursuant to the amended consent orders, in order to accelerate the remediation process, we agreed to make a payment of \$70 million for distribution to potentially affected borrowers in the review population and to provide \$111 million in additional loss mitigation or other foreclosure prevention relief, which could be satisfied pursuant to the amended consent orders by a variety of borrower relief actions or by additional cash payments or resource commitments to borrower counseling or education. In June 2015, the OCC issued an order finding that PNC Bank had satisfied all of its obligations under the OCC's 2013 amended consent order and terminating PNC Bank's 2011 consent order and 2013 amended consent order. The OCC retained jurisdiction over the distribution of remaining funds contributed by PNC Bank under its 2013 amended consent order. PNC's consent order with the Federal Reserve, as amended, remains open and does not foreclose the potential for civil money penalties from the Federal Reserve. The range of potential penalties communicated to PNC from the Federal Reserve in connection with the consent orders is not material and we do not otherwise expect any additional financial charges from the Federal Reserve consent orders to be material.

- In February 2012, the Department of Justice, other federal regulators and 49 state attorneys general announced agreements with the five largest mortgage servicers. Written agreements were filed with the U.S. District Court for the Southern District of New York in March 2012. Under these agreements, the mortgage servicers will make cash payments to federal and state governments, provide various forms of financial relief to borrowers, and implement new mortgage servicing standards. These governmental authorities are continuing their review of, and have engaged in discussions with, other mortgage servicers, including PNC, that were subject to the interagency horizontal review, which could result in the imposition of substantial payments and other forms of relief (similar to that agreed to by the five largest servicers) on some or all of these mortgage servicers, including PNC. Whether and to what extent any such relief may be imposed on PNC is not yet known.
- We received subpoenas from the U.S. Attorney's Office for the Southern District of New York. The first two subpoenas, served in 2011, concern National City Bank's lending practices in connection with loans insured by the Federal Housing Administration (FHA) as well as certain non-FHA-insured loan origination, sale and securitization practices. A third, served in 2013, seeks information regarding claims for costs that are incurred by foreclosure counsel in connection with the foreclosure of loans insured or guaranteed by FHA, FNMA or FHLMC. We are cooperating with the investigations.

Our practice is to cooperate fully with regulatory and governmental investigations, audits and other inquiries, including those described in this Note 19.

Other

In addition to the proceedings or other matters described above, PNC and persons to whom we may have indemnification obligations, in the normal course of business, are subject to various other pending and threatened legal proceedings in which claims for monetary damages and other relief are asserted. We do not anticipate, at the present time, that the ultimate aggregate liability, if any, arising out of such other legal proceedings will have a material adverse effect on our financial position. However, we cannot now determine whether or not any claims asserted against us or others to whom we may have indemnification obligations, whether in the proceedings or other matters described above or otherwise, will have a material adverse effect on our results of operations in any future reporting period, which will depend on, among other things, the amount of the loss resulting from the claim and the amount of income otherwise reported for the reporting period.

NOTE 20 COMMITMENTS

In the normal course of business, we have various commitments outstanding, certain of which are not included on our Consolidated Balance Sheet. The following table presents our outstanding commitments to extend credit along with significant other commitments as of December 31, 2016 and December 31, 2015, respectively.

Table 98: Commitments to Extend Credit and Other Commitments

In millions	December 31 2016	December 31 2015
Commitments to extend credit		
Total commercial lending	\$ 108,256	\$ 101,252
Home equity lines of credit	17,438	17,268
Credit card	22,095	19,937
Other	4,192	4,032
Total commitments to extend credit	151,981	142,489
Net outstanding standby letters of credit (a)	8,324	8,765
Reinsurance agreements (b)	1,835	2,010
Standby bond purchase agreements (c)	790	911
Other commitments (d)	967	966
Total commitments to extend credit and other commitments	\$ 163,897	\$ 155,141

- (a) Net outstanding standby letters of credit include \$3.9 billion and \$4.7 billion which support remarketing programs at December 31, 2016 and December 31, 2015, respectively.
- (b) Represents aggregate maximum exposure up to the specified limits of the reinsurance contracts, and reflects estimates based on availability of financial information from insurance carriers. As of December 31, 2016, the aggregate maximum exposure amount comprised \$1.5 billion for accidental death & dismemberment contracts and \$3 billion for credit life, accident & health contracts. Comparable amounts at December 31, 2015 were \$1.6 billion and \$4 billion, respectively.
- (c) We enter into standby bond purchase agreements to support municipal bond obligations.
- (d) Includes \$5 billion related to investments in qualified affordable housing projects at both December 31, 2016 and December 31, 2015.

Commitments to Extend Credit

Commitments to extend credit, or net unfunded loan commitments, represent arrangements to lend funds or provide liquidity subject to specified contractual conditions. These commitments generally have fixed expiration dates, may require payment of a fee, and contain termination clauses in the event the customer's credit quality deteriorates.

Net Outstanding Standby Letters of Credit

We issue standby letters of credit and share in the risk of standby letters of credit issued by other financial institutions, in each case to support obligations of our customers to third parties, such as insurance requirements and the facilitation of transactions involving capital markets product execution. Approximately 94% and 93% of our net outstanding standby letters of credit were rated as Pass as of December 31, 2016 and December 31, 2015, respectively, with the remainder rated as Below Pass. An internal credit rating of Pass indicates the expected risk of loss is currently low, while a rating of Below Pass indicates a higher degree of risk.

If the customer fails to meet its financial or performance obligation to the third party under the terms of the contract or there is a need to support a remarketing program, then upon a draw by a beneficiary, subject to the terms of the letter of credit, we would be obligated to make payment to them. The standby letters of credit outstanding on December 31, 2016 had terms ranging from less than 1 year to 8 years.

As of December 31, 2016, assets of \$1.0 billion secured certain specifically identified standby letters of credit. In addition, a portion of the remaining standby letters of credit issued on behalf of specific customers is also secured by collateral or guarantees that secure the customers' other obligations to us. The carrying amount of the liability for our obligations related to standby letters of credit and participations in standby letters of credit was \$2 billion at December 31, 2016 and is included in Other liabilities on our Consolidated Balance Sheet.

NOTE 21 PARENT COMPANY

On August 23, 2016, PNC Funding Corp, a wholly-owned indirect non-bank subsidiary of the parent company, was merged into the parent company with all assets and liabilities transferred to the parent company at historical cost. As a result, the summarized financial information for all periods is presented in the following tables on a combined basis.

Summarized financial information of the parent company is as follows:

Table 99: Parent Company – Income Statement

Year ended December 31 – in millions	2016	2015	2014
Operating Revenue			
Dividends from:			
Bank subsidiaries and bank holding company	\$2,906	\$3,110	\$3,115
Non-bank subsidiaries	130	49	115
Interest income	93	82	88
Noninterest income	13	56	80
Total operating revenue	3,142	3,297	3,398
Operating Expense			
Interest expense	197	193	227
Other expense	108	89	127
Total operating expense	305	282	354
Income before income taxes and equity in undistributed net income of subsidiaries	2,837	3,015	3,044
Income tax benefits	(96)	(98)	(60)
Income before equity in undistributed net income of subsidiaries	2,933	3,113	3,104
Equity in undistributed net income of subsidiaries:			
Bank subsidiaries and bank holding company	818	736	854
Non-bank subsidiaries	153	257	226
Net income	\$3,904	\$4,106	\$4,184
Other comprehensive income, net of tax:			
Net pension and other postretirement benefit plan activity arising during the period	13	(3)	(17)
Other comprehensive income (loss)	13	(3)	(17)
Comprehensive income	\$3,917	\$4,103	\$4,167

Table 100: Parent Company – Balance Sheet

December 31 – in millions	2016	2015
Assets		
Cash held at banking subsidiary	\$ 1	\$ 1
Restricted deposits with banking subsidiary	175	
Nonrestricted interest-earning deposits	4,684	3,077
Restricted interest-earning deposits		300
Investments in:		
Bank subsidiaries and bank holding company	42,361	41,919
Non-bank subsidiaries	2,859	2,747
Bank debt securities with affiliates		1,850
Loans with affiliates	1,358	1,669
Other assets	1,322	1,724
Total assets	\$52,760	\$ 53,287
Liabilities		
Subordinated debt (a)	\$ 2,242	\$ 2,267
Senior debt (a)	3,959	5,264
Other borrowed funds from affiliates	223	347
Accrued expenses and other liabilities	637	699
Total liabilities	7,061	8,577
Equity		
Shareholders' equity	45,699	44,710
Total liabilities and equity	\$52,760	\$ 53,287

(a) See Note 10 Borrowed Funds for additional information on contractual rates and maturity dates of senior debt and subordinated debt for parent company.

In connection with certain affiliates' commercial and residential mortgage servicing operations, the parent company has committed to maintain such affiliates' net worth above minimum requirements.

Table 101: Parent Company – Interest Paid and Income Tax Refunds (Payments)

Year ended December 31 – in millions	Interest Paid	Income Tax Refunds / (Payments)
2016	\$ 317	\$ 183
2015	\$ 404	\$ 64
2014	\$ 442	\$ 10

Table 102: Parent Company – Statement of Cash Flows

Year ended December 31 – in millions	2016	2015	2014
Operating Activities			
Net income	\$ 3,904	\$ 4,106	\$ 4,184
Adjustments to reconcile net income to net cash provided by operating activities:			
Equity in undistributed net earnings of subsidiaries	(971)	(993)	(1,080)
Other	142	149	122
Net cash provided (used) by operating activities	3,075	3,262	3,226
Investing Activities			
Net change in loans and securities from affiliates	2,161	(185)	2,098
Net change in restricted deposits with banking subsidiary	(175)	400	
Net change in nonrestricted interest-earning deposits	(1,607)	3,244	(2,455)
Net change in restricted interest-earning deposits	300	(300)	
Other	266	(82)	(82)
Net cash provided (used) by investing activities	945	3,077	(439)
Financing Activities			
Net change in other borrowed funds from affiliates	(124)	(100)	(14)
Net change in senior debt	(1,252)	(1,888)	(1,379)
Net change in subordinated debt	17	(580)	762
Preferred stock issuances	519		
Preferred stock redemptions		(500)	
Common and treasury stock issuances	151	139	252
Acquisition of treasury stock	(2,062)	(2,152)	(1,176)
Preferred stock cash dividends paid	(209)	(219)	(232)
Common stock cash dividends paid	(1,060)	(1,039)	(1,000)
Net cash provided (used) by financing activities	(4,020)	(6,339)	(2,787)
Cash held at banking subsidiary at beginning of year	1	1	1
Cash held at banking subsidiary at end of year	\$ 1	\$ 1	\$ 1

NOTE 22 SEGMENT REPORTING

We have six reportable business segments:

- Retail Banking
- Corporate & Institutional Banking
- Asset Management Group
- Residential Mortgage Banking
- BlackRock
- Non-Strategic Assets Portfolio

Results of individual businesses are presented based on our internal management reporting practices. There is no comprehensive, authoritative body of guidance for management accounting equivalent to GAAP; therefore, the financial results of our individual businesses are not necessarily comparable with similar information for any other company. We periodically refine our internal methodologies as management reporting practices are enhanced. To the extent significant and practicable, retrospective application of new methodologies is made to prior period reportable business segment results and disclosures to create comparability with the current period.

Financial results are presented, to the extent practicable, as if each business operated on a stand-alone basis. Additionally, we have aggregated the results for corporate support functions within “Other” for financial reporting purposes.

Net interest income in business segment results reflects our internal funds transfer pricing methodology. Assets receive a funding charge and liabilities and capital receive a funding credit based on a transfer pricing methodology that incorporates product repricing characteristics, tenor and other factors. In the first quarter of 2015, enhancements were made to our funds transfer pricing methodology primarily for costs related to the new regulatory short-term liquidity standards. The enhancements incorporate an additional charge assigned to assets, including for unfunded loan commitments. Conversely, a higher transfer pricing credit has been assigned to those deposits that are accorded higher value under Liquidity Coverage Ratio (LCR) rules for liquidity purposes. These adjustments affected business segment results, primarily favorably impacting Retail Banking and adversely impacting Corporate & Institutional Banking, prospectively beginning with the first quarter of 2015. Periods prior to 2015 have not been adjusted due to the impracticability of estimating the impact of the change for prior periods.

A portion of capital is intended to cover unexpected losses and is assigned to our business segments using our risk-based economic capital model, including consideration of the goodwill at those business segments, as well as the diversification of risk among the business segments, ultimately reflecting our portfolio risk adjusted capital allocation.

Table of Contents

We have allocated the allowances for loan and lease losses and for unfunded loan commitments and letters of credit based on the loan exposures within each business segment's portfolio. Key reserve assumptions and estimation processes react to and are influenced by observed changes in loan portfolio performance experience, the financial strength of the borrower, and economic conditions. Key reserve assumptions are periodically updated.

Our allocation of the costs incurred by operations and other shared support areas not directly aligned with the businesses is primarily based on the use of services.

Total business segment financial results differ from total consolidated net income. The impact of these differences is reflected in the "Other" category in the business segment tables. "Other" includes residual activities that do not meet the criteria for disclosure as a separate reportable business, such as gains or losses related to BlackRock transactions, integration costs, asset and liability management activities including net securities gains or losses, other-than-temporary impairment of investment securities and certain trading activities, exited businesses, private equity investments, intercompany eliminations, most corporate overhead, tax adjustments that are not allocated to business segments, and differences between business segment performance reporting and financial statement reporting (GAAP), including the presentation of net income attributable to noncontrolling interests as the segments' results exclude their portion of net income attributable to noncontrolling interests. Assets, revenue and earnings attributable to foreign activities were not material in the periods presented for comparative purposes.

Effective for the first quarter of 2017, we intend to realign our segments with how we began managing our businesses in 2017 and we intend to change the basis of presentation of our segments as follows:

- Residential Mortgage Banking will be combined into Retail Banking,
- Non-Strategic Assets Portfolio will be eliminated and the assets will be moved to Other and Corporate & Institutional Banking,
- Residential mortgages within Other will be moved to Retail Banking, and
- A portion of business banking will be moved from Retail Banking to Corporate & Institutional Banking.

We also are making certain adjustments to our internal funds transfer pricing methodology. Prior periods will be restated to conform to the new segment alignment and to our change in methodology.

Business Segment Products and Services

Retail Banking provides deposit, lending, brokerage, investment management and cash management services to consumer and small business customers within our primary

geographic markets. Our customers are serviced through our branch network, ATMs, call centers, online banking and mobile channels. The branch network is located primarily in Pennsylvania, Ohio, New Jersey, Michigan, Illinois, Maryland, Indiana, Florida, North Carolina, Kentucky, Washington, D.C., Delaware, Virginia, Georgia, Alabama, Missouri, Wisconsin and South Carolina.

Corporate & Institutional Banking provides lending, treasury management, and capital markets-related products and services to mid-sized and large corporations, government and not-for-profit entities. Lending products include secured and unsecured loans, letters of credit and equipment leases. Treasury management services include cash and investment management, receivables management, disbursement services, funds transfer services, information reporting and global trade services. Capital markets-related products and services include foreign exchange, derivatives, securities, loan syndications, mergers and acquisitions advisory and equity capital markets advisory related services. We also provide commercial loan servicing and technology solutions for the commercial real estate finance industry. Products and services are generally provided within our primary geographic markets, with certain products and services offered nationally and internationally.

Asset Management Group provides personal wealth management for high net worth and ultra high net worth clients and institutional asset management. Wealth management products and services include investment and retirement planning, customized investment management, private banking, tailored credit solutions, and trust management and administration for individuals and their families. Our Hawthorn unit provides multi-generational family planning including estate, financial, tax planning, fiduciary, investment management and consulting, private banking, personal administrative services, asset custody and customized performance reporting to ultra high net worth families. Institutional asset management provides advisory, custody and retirement administration services. The business also offers PNC proprietary mutual funds. Institutional clients include corporations, unions, municipalities, non-profits, foundations and endowments, primarily located in our geographic footprint.

Residential Mortgage Banking directly originates first lien residential mortgage loans on a nationwide basis with a significant presence within the retail banking footprint. Mortgage loans represent loans collateralized by one-to-four family residential real estate. These loans are typically underwritten to government agency and/or third-party standards, and either sold, servicing retained, or held on PNC's balance sheet. Loan sales are primarily to secondary mortgage conduits of Federal National Mortgage Association (FNMA), Federal Home Loan Mortgage Corporation (FHLMC), Federal Home Loan Banks and third-party investors, or are securitized and issued under the Government National Mortgage Association (GNMA) program. The mortgage servicing operation performs all functions related to

Table of Contents

servicing mortgage loans, primarily those in first lien position, for various investors and for loans owned by us.

BlackRock, in which we hold an equity investment, is a leading publicly traded investment management firm providing a broad range of investment and risk management services to institutional and retail clients worldwide. Using a diverse platform of active and index investment strategies across asset classes, BlackRock develops investment outcomes and asset allocation solutions for clients. Product offerings include single- and multi-asset class portfolios investing in equities, fixed income, alternatives and money market instruments. BlackRock also offers an investment and risk management technology platform, risk analytics, advisory and technology services and solutions to a broad base of institutional and wealth management investors.

Our equity investment in BlackRock provides us with an additional source of noninterest income and increases our overall revenue diversification. BlackRock is a publicly traded company, and additional information regarding its business is available in its filings with the Securities and Exchange Commission (SEC). At December 31, 2016, our economic interest in BlackRock was 22%. We received cash dividends from BlackRock of \$331 million, \$320 million, and \$285 million during 2016, 2015, and 2014, respectively.

Non-Strategic Assets Portfolio includes a consumer portfolio of mainly residential mortgage and brokered home equity loans and lines of credit and a small commercial lending portfolio. We obtained a significant portion of these non-strategic assets through acquisitions of other companies.

Table 103: Results of Businesses

Year ended December 31 In millions	Retail Banking	Corporate & Institutional Banking	Asset Management Group	Residential Mortgage Banking	BlackRock	Non-Strategic Assets Portfolio	Other	Consolidated (a)
2016								
INCOME STATEMENT								
Net interest income	\$ 4,455	\$ 3,373	\$ 300	\$ 107		\$ 298	\$ (142)	\$ 8,391
Noninterest income	2,142	2,006	851	633	\$ 685	43	411	6,771
Total revenue	6,597	5,379	1,151	740	685	341	269	15,162
Provision for credit losses (benefit)	284	187	(6)			(30)	(2)	433
Depreciation and amortization	161	148	45	11			478	843
Other noninterest expense	4,532	2,027	780	595		66	633	8,633
Income (loss) before income taxes and noncontrolling interests	1,620	3,017	332	134	685	305	(840)	5,253
Income taxes (benefit)	593	982	122	49	153	112	(743)	1,268
Net income (loss)	\$ 1,027	\$ 2,035	\$ 210	\$ 85	\$ 532	\$ 193	\$ (97)	\$ 3,985
Average Assets (b)	\$71,556	\$ 138,587	\$ 7,707	\$ 6,053	\$ 7,118	\$ 5,452	\$124,787	\$ 361,260
2015								
INCOME STATEMENT								
Net interest income	\$ 4,224	\$ 3,365	\$ 292	\$ 121		\$ 392	\$ (116)	\$ 8,278
Noninterest income	2,223	1,935	869	613	\$ 717	53	537	6,947
Total revenue	6,447	5,300	1,161	734	717	445	421	15,225
Provision for credit losses (benefit)	259	106	9	2		(114)	(7)	255
Depreciation and amortization	169	145	44	15			436	809
Other noninterest expense	4,592	2,003	802	676		83	498	8,654
Income (loss) before income taxes and noncontrolling interests	1,427	3,046	306	41	717	476	(506)	5,507
Income taxes (benefit)	520	1,015	112	15	169	175	(642)	1,364
Net income	\$ 907	\$ 2,031	\$ 194	\$ 26	\$ 548	\$ 301	\$ 136	\$ 4,143
Average Assets (b)	\$73,240	\$ 132,032	\$ 7,920	\$ 6,840	\$ 6,983	\$ 6,706	\$121,243	\$ 354,964
2014								
INCOME STATEMENT								
Net interest income	\$ 3,923	\$ 3,605	\$ 289	\$ 149		\$ 547	\$ 12	\$ 8,525
Noninterest income	2,125	1,743	818	651	\$ 703	40	770	6,850
Total revenue	6,048	5,348	1,107	800	703	587	782	15,375
Provision for credit losses (benefit)	277	107	(1)	(2)		(119)	11	273
Depreciation and amortization	176	135	42	12			411	776
Other noninterest expense	4,449	1,929	779	734		125	696	8,712
Income (loss) before income taxes and noncontrolling interests	1,146	3,177	287	56	703	581	(336)	5,614
Income taxes (benefit)	418	1,071	106	21	173	214	(596)	1,407
Net income	\$ 728	\$ 2,106	\$ 181	\$ 35	\$ 530	\$ 367	\$ 260	\$ 4,207
Average Assets (b)	\$75,046	\$ 122,927	\$ 7,745	\$ 7,857	\$ 6,640	\$ 8,338	\$ 99,300	\$ 327,853

(a) There were no material intersegment revenues for the years ended 2016, 2015 and 2014.

(b) Period-end balances for BlackRock.

NOTE 23 SUBSEQUENT EVENTS

On January 30, 2017, we announced a \$300 million increase in our share repurchase programs for the four-quarter period ended June 30, 2017. This amount is in addition to the share repurchase programs of up to \$2.0 billion during this period authorized as part of our 2016 capital plan under the Federal Reserve's Comprehensive Capital Analysis and Review, which included up to \$200 million related to employee benefit plans.

On February 1, 2017, we transferred 0.5 million shares of BlackRock Series C Preferred Stock to BlackRock to satisfy a portion of our LTIP obligation. Upon transfer, Other assets and Other liabilities on our Consolidated Balance Sheet were each reduced by \$155 million, representing the fair value of the shares transferred. After this transfer, we hold approximately 0.3 million shares of BlackRock Series C Preferred Stock which are available to fund our remaining obligation in connection with the BlackRock LTIP programs.

On February 3, 2017, we announced that on March 15, 2017 we will redeem all of the Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities of PNC Preferred Funding Trust I with a current distribution rate of 2.61344% and all of the Fixed-to-Floating Rate Non-Cumulative Exchangeable Perpetual Trust Securities of PNC Preferred Funding Trust II with a current distribution rate of 2.18594%. The redemption price will be \$100,000 per security. The previously declared regular first quarter distribution on the securities is payable on March 15, 2017 to holders of record on March 1, 2017.

On February 7, 2017, the parent company issued \$575 million in Floating Rate Senior Notes with a maturity date of August 7, 2018. Interest is payable at the 3-month LIBOR rate reset quarterly, plus a spread of 0.25% per annum, on February 7, May 7, August 7, and November 7 of each year, commencing on May 7, 2017.

On February 17, 2017, PNC Bank issued \$1.0 billion of Senior Notes with a maturity date of February 17, 2022. Interest is payable semi-annually at a fixed rate of 2.625% on February 17 and August 17 of each year, commencing on August 17, 2017.

STATISTICAL INFORMATION (UNAUDITED)

THE PNC FINANCIAL SERVICES GROUP, INC.

SELECTED QUARTERLY FINANCIAL DATA

Dollars in millions, except per share data	2016				2015			
	Fourth	Third	Second	First	Fourth	Third	Second	First
Summary Of Operations								
Interest income	\$2,453	\$2,408	\$2,384	\$2,407	\$2,358	\$2,341	\$2,305	\$2,319
Interest expense	323	313	316	309	266	279	253	247
Net interest income	2,130	2,095	2,068	2,098	2,092	2,062	2,052	2,072
Noninterest income	1,744	1,734	1,726	1,567	1,761	1,713	1,814	1,659
Total revenue	3,874	3,829	3,794	3,665	3,853	3,775	3,866	3,731
Provision for credit losses	67	87	127	152	74	81	46	54
Noninterest expense	2,441	2,394	2,360	2,281	2,396	2,352	2,366	2,349
Income before income taxes and noncontrolling interests	1,366	1,348	1,307	1,232	1,383	1,342	1,454	1,328
Income taxes	319	342	318	289	361	269	410	324
Net income	1,047	1,006	989	943	1,022	1,073	1,044	1,004
Less: Net income (loss) attributable to noncontrolling interests	22	18	23	19	14	18	4	1
Preferred stock dividends and discount accretion and redemptions	43	64	43	65	43	64	48	70
Net income attributable to common shareholders	\$ 982	\$ 924	\$ 923	\$ 859	\$ 965	\$ 991	\$ 992	\$ 933
Per Common Share Data								
Book value	\$85.94	\$86.57	\$85.33	\$83.47	\$81.84	\$81.42	\$79.64	\$78.99
Basic earnings from net income	\$ 2.01	\$ 1.87	\$ 1.84	\$ 1.70	\$ 1.90	\$ 1.93	\$ 1.92	\$ 1.79
Diluted earnings from net income	\$ 1.97	\$ 1.84	\$ 1.82	\$ 1.68	\$ 1.87	\$ 1.90	\$ 1.88	\$ 1.75

[Table of Contents](#)
AVERAGE CONSOLIDATED BALANCE SHEET AND NET INTEREST ANALYSIS (a) (b) (c)

Taxable-equivalent basis Dollars in millions	2016			2015			2014		
	Average Balances	Interest Income/ Expense	Average Yields/ Rates	Average Balances	Interest Income/ Expense	Average Yields/ Rates	Average Balances	Interest Income/ Expense	Average Yields/ Rates
Assets									
Interest-earning assets:									
Investment securities									
Securities available for sale									
Residential mortgage-backed									
Agency	\$ 25,442	\$ 617	2.43%	\$ 21,371	\$ 540	2.53%	\$ 18,935	\$ 503	2.66%
Non-agency	3,613	175	4.84%	4,374	207	4.73%	5,106	244	4.78%
Commercial mortgage-backed	6,369	167	2.62%	6,372	195	3.06%	5,461	192	3.52%
Asset-backed	5,741	132	2.30%	5,234	111	2.12%	5,321	105	1.97%
U.S. Treasury and government agencies	10,590	155	1.46%	6,486	79	1.22%	4,837	57	1.18%
Other	5,064	152	3.00%	4,344	146	3.36%	4,566	148	3.24%
Total securities available for sale	56,819	1,398	2.46%	48,181	1,278	2.65%	44,226	1,249	2.82%
Securities held to maturity									
Residential mortgage-backed	10,529	290	2.75%	8,238	251	3.05%	5,885	207	3.52%
Commercial mortgage-backed	1,693	62	3.66%	1,976	75	3.80%	2,502	99	3.96%
Asset-backed	677	14	2.07%	738	11	1.49%	908	14	1.54%
U.S. Treasury and government agencies	308	11	3.57%	253	10	3.95%	243	9	3.70%
Other	2,020	114	5.64%	2,279	119	5.22%	2,056	105	5.11%
Total securities held to maturity	15,227	491	3.22%	13,484	466	3.46%	11,594	434	3.74%
Total investment securities	72,046	1,889	2.62%	61,665	1,744	2.83%	55,820	1,683	3.02%
Loans									
Commercial	100,319	3,141	3.13%	98,093	2,975	3.03%	92,411	3,029	3.28%
Commercial real estate	28,729	964	3.36%	25,177	896	3.56%	22,646	919	4.06%
Equipment lease financing	7,463	266	3.56%	7,570	260	3.43%	7,567	278	3.67%
Consumer	57,499	2,476	4.31%	60,094	2,505	4.17%	62,529	2,609	4.17%
Residential real estate	14,807	696	4.70%	14,415	697	4.84%	14,495	721	4.97%
Total loans	208,817	7,543	3.61%	205,349	7,333	3.57%	199,648	7,556	3.78%
Interest-earning deposits with banks	26,328	136	.52%	32,908	86	.26%	19,204	49	.26%
Other interest-earning assets	7,843	279	3.56%	8,903	356	4.00%	8,633	332	3.85%
Total interest-earning assets/interest income	315,034	9,847	3.13%	308,825	9,519	3.08%	283,305	9,620	3.40%
Noninterest-earning assets	46,226			46,139			44,548		
Total assets	\$361,260			\$354,964			\$327,853		
Liabilities and Equity									
Interest-bearing liabilities:									
Interest-bearing deposits									
Money market	\$ 71,530	\$ 146	.20%	\$ 81,911	\$ 214	.26%	\$ 75,513	\$ 140	.19%
Demand	52,701	40	.08%	46,649	26	.06%	43,367	22	.05%
Savings	29,643	119	.40%	14,719	32	.22%	11,990	14	.12%
Time deposits	18,890	125	.66%	20,686	131	.63%	21,944	149	.68%
Total interest-bearing deposits	172,764	430	.25%	163,965	403	.25%	152,814	325	.21%
Borrowed funds									
Federal Home Loan Bank borrowings	18,385	155	.84%	21,365	104	.49%	14,863	73	.49%
Bank notes and senior debt	21,906	352	1.61%	17,937	223	1.24%	14,114	202	1.43%
Subordinated debt	8,324	264	3.17%	8,796	236	2.68%	8,559	219	2.56%
Other	4,324	60	1.39%	8,415	79	.94%	11,281	87	.77%
Total borrowed funds	52,939	831	1.57%	56,513	642	1.14%	48,817	581	1.19%
Total interest-bearing liabilities/interest expense	225,703	1,261	.56%	220,478	1,045	.47%	201,631	906	.45%
Noninterest-bearing liabilities and equity:									
Noninterest-bearing deposits	78,085			76,398			70,108		
Accrued expenses and other liabilities	11,083			12,210			10,768		
Equity	46,389			45,878			45,346		
Total liabilities and equity	\$361,260			\$354,964			\$327,853		
Interest rate spread			2.57%			2.61%			2.95%
Impact of noninterest-bearing sources			.16			.13			.13
Net interest income/margin		\$ 8,586	2.73%		\$ 8,474	2.74%		\$ 8,714	3.08%

- (a) Nonaccrual loans are included in loans, net of unearned income. The impact of financial derivatives used in interest rate risk management is included in the interest income/expense and average yields/rates of the related assets and liabilities. Basis adjustments related to hedged items are included in noninterest-earning assets and noninterest-bearing liabilities. Average balances of securities are based on amortized historical cost (excluding adjustments to fair value, which are included in other assets). Average balances for certain loans and borrowed funds accounted for at fair value, with changes in fair value recorded in Noninterest income, are included in noninterest-earning assets and noninterest-bearing liabilities.
- (b) Loan fees for the years ended December 31, 2016, 2015 and 2014 were \$137 million, \$106 million and \$162 million, respectively.
- (c) Interest income calculated as taxable-equivalent interest income. The interest income earned on certain earning assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of interest income and yields for all interest-earning assets, as well as net interest margins, we use interest income on a taxable-equivalent basis in calculating average yields and net interest margin by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP. See Reconciliation of Taxable-Equivalent Net Interest Income in this Statistical Information section for more information.

Table of Contents

ANALYSIS OF YEAR-TO-YEAR CHANGES IN NET INTEREST INCOME (a) (b)

Taxable-equivalent basis In millions	2016/2015			2015/2014		
	Increase/(Decrease) in Income/ Expense Due to Changes in:			Increase/(Decrease) in Income/ Expense Due to Changes in:		
	Volume	Rate	Total	Volume	Rate	Total
Interest-Earning Assets						
Investment securities						
Securities available for sale						
Residential mortgage-backed						
Agency	\$ 99	\$ (22)	\$ 77	\$ 63	\$ (26)	\$ 37
Non-agency	(37)	5	(32)	(34)	(3)	(37)
Commercial mortgage-backed		(28)	(28)	30	(27)	3
Asset-backed	12	9	21	(2)	8	6
U.S. Treasury and government agencies	58	18	76	20	2	22
Other	23	(17)	6	(7)	5	(2)
Total securities available for sale	217	(97)	120	107	(78)	29
Securities held to maturity						
Residential mortgage-backed	66	(27)	39	75	(31)	44
Commercial mortgage-backed	(10)	(3)	(13)	(20)	(4)	(24)
Asset-backed	(1)	4	3	(3)		(3)
U.S. Treasury and government agencies	2	(1)	1		1	1
Other	(15)	10	(5)	12	2	14
Total securities held to maturity	58	(33)	25	66	(34)	32
Total investment securities	280	(135)	145	171	(110)	61
Loans						
Commercial	67	99	166	182	(236)	(54)
Commercial real estate	120	(52)	68	97	(120)	(23)
Equipment lease financing	(4)	10	6		(18)	(18)
Consumer	(111)	82	(29)	(104)		(104)
Residential real estate	19	(20)	(1)	(4)	(20)	(24)
Total loans	126	84	210	209	(432)	(223)
Interest-earning deposits with banks	(20)	70	50	37		37
Other interest-earning	(40)	(37)	(77)	10	14	24
Total interest-earning assets	\$ 182	\$ 146	\$ 328	\$ 838	\$ (939)	\$ (101)
Interest-Bearing Liabilities						
Interest-bearing deposits						
Money market	\$ (24)	\$ (44)	\$ (68)	\$ 14	\$ 60	\$ 74
Demand	4	10	14	1	3	4
Savings	49	38	87	4	14	18
Time deposits	(12)	6	(6)	(8)	(10)	(18)
Total interest-bearing deposits	27		27	21	57	78
Borrowed funds						
Federal Home Loan Bank borrowings	(17)	68	51	31		31
Bank notes and senior debt	55	74	129	50	(29)	21
Subordinated debt	(13)	41	28	6	11	17
Other	(48)	29	(19)	(25)	17	(8)
Total borrowed funds	(43)	232	189	86	(25)	61
Total interest-bearing liabilities	24	192	216	95	44	139
Change in net interest income	\$ 160	\$ (48)	\$ 112	\$ 746	\$ (986)	\$ (240)

(a) Changes attributable to rate/volume are prorated into rate and volume components.

(b) Interest income calculated as taxable-equivalent interest income. The interest income earned on certain earning assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of interest income, we use interest income on a taxable-equivalent basis by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP. See Reconciliation of Taxable-Equivalent Net Interest Income in this Statistical Information section for more information.

Table of Contents

RECONCILIATION OF TAXABLE-EQUIVALENT NET INTEREST INCOME (NON-GAAP) (a)

In millions	Year ended December 31		
	2016	2015	2014
Net interest income (GAAP)	\$8,391	\$8,278	\$8,525
Taxable-equivalent adjustments	195	196	189
Net interest income (Non-GAAP)	\$8,586	\$8,474	\$8,714

(a) The interest income earned on certain earning assets is completely or partially exempt from federal income tax. As such, these tax-exempt instruments typically yield lower returns than taxable investments. To provide more meaningful comparisons of net interest income, we use interest income on a taxable-equivalent basis by increasing the interest income earned on tax-exempt assets to make it fully equivalent to interest income earned on taxable investments. This adjustment is not permitted under GAAP.

LOANS SUMMARY

December 31 – in millions	2016	2015	2014	2013	2012
Commercial lending					
Commercial	\$101,364	\$ 98,608	\$ 97,420	\$ 88,378	\$ 83,040
Commercial real estate	29,010	27,468	23,262	21,191	18,655
Equipment lease financing	7,581	7,468	7,686	7,576	7,247
Total commercial lending	137,955	133,544	128,368	117,145	108,942
Consumer lending					
Home equity	29,949	32,133	34,677	36,447	35,920
Residential real estate	15,598	14,411	14,407	15,065	15,240
Credit card	5,282	4,862	4,612	4,425	4,303
Other consumer	22,049	21,746	22,753	22,531	21,451
Total consumer lending	72,878	73,152	76,449	78,468	76,914
Total loans	\$210,833	\$206,696	\$204,817	\$195,613	\$185,856

RECONCILIATION OF TANGIBLE BOOK VALUE PER COMMON SHARE (NON-GAAP)

December 31 Dollars in millions, except per share data	2016	2015	2014	2013	2012
Book value per common share	\$ 85.94	\$ 81.84	\$ 77.61	\$ 72.07	\$ 66.95
Tangible book value per common share					
Common shareholders' equity	\$41,723	\$41,258	\$40,605	\$38,392	\$35,358
Goodwill and Other Intangible Assets	(9,376)	(9,482)	(9,595)	(9,654)	(9,798)
Deferred tax liabilities on Goodwill and Other Intangible Assets	304	310	320	333	354
Tangible common shareholders' equity	\$32,651	\$32,086	\$31,330	\$29,071	\$25,914
Period-end common shares outstanding (in millions)	485	504	523	533	528
Tangible book value per common share (Non-GAAP) (a)	\$ 67.26	\$ 63.65	\$ 59.88	\$ 54.57	\$ 49.07

(a) We believe this non-GAAP financial measure serves as a useful tool to help evaluate the strength and discipline of a company's capital management strategies and as an additional conservative measure of total company value.

[Table of Contents](#)
RECONCILIATION OF FEE INCOME (NON-GAAP)

Year ended December 31

Dollars in millions

	2016	2015	2014
Noninterest income			
Asset management	\$1,521	\$1,567	\$1,513
Consumer services	1,388	1,335	1,254
Corporate services	1,504	1,491	1,415
Residential mortgage	567	566	618
Service charges on deposits	667	651	662
Total fee income	5,647	5,610	5,462
Other	1,124	1,337	1,388
Total noninterest income	\$6,771	\$6,947	\$6,850

NONPERFORMING ASSETS AND RELATED INFORMATION

December 31 – dollars in millions

	2016	2015	2014	2013	2012
Nonperforming loans					
Commercial	\$ 496	\$ 351	\$ 290	\$ 457	\$ 590
Commercial real estate	143	187	334	518	807
Equipment lease financing	16	7	2	5	13
Total commercial lending	655	545	626	980	1,410
Consumer lending (a)					
Home equity (b)	914	977	1,112	1,139	951
Residential real estate (b)	501	549	706	904	845
Credit card	4	3	3	4	5
Other consumer (b)	70	52	63	61	43
Total consumer lending	1,489	1,581	1,884	2,108	1,844
Total nonperforming loans (c)	2,144	2,126	2,510	3,088	3,254
OREO, foreclosed and other assets	230	299	370	369	540
Total nonperforming assets	\$2,374	\$2,425	\$2,880	\$3,457	\$3,794
Nonperforming loans to total loans	1.02%	1.03%	1.23%	1.58%	1.75%
Nonperforming assets to total loans, OREO, foreclosed and other assets	1.12%	1.17%	1.40%	1.76%	2.04%
Nonperforming assets to total assets	.65%	.68%	.83%	1.08%	1.24%
Interest on nonperforming loans					
Computed on original terms	\$ 111	\$ 115	\$ 125	\$ 163	\$ 212
Recognized prior to nonperforming status	\$ 21	\$ 22	\$ 25	\$ 30	\$ 30
Troubled Debt Restructurings					
Nonperforming	\$1,112	\$1,119	\$1,370	\$1,511	\$1,589
Performing	\$1,109	\$1,232	\$1,213	\$1,228	\$1,270
Past due loans					
Accruing loans past due 90 days or more (d)	\$ 782	\$ 881	\$1,105	\$1,491	\$2,351
As a percentage of total loans	.37%	.43%	.54%	.76%	1.26%
Past due loans held for sale					
Accruing loans held for sale past due 90 days or more	\$ 4	\$ 4	\$ 9	\$ 4	\$ 38
As a percentage of total loans held for sale	.16%	.29%	.40%	.18%	1.03%

(a) Excludes most consumer loans and lines of credit, not secured by residential real estate, which are charged off after 120 to 180 days past due and are not placed on nonperforming status.

(b) Pursuant to alignment with interagency supervisory guidance on practices for loans and lines of credit related to consumer lending in the first quarter of 2013, nonperforming home equity loans increased \$214 million, nonperforming residential mortgage loans increased \$187 million and nonperforming other consumer loans increased \$25 million. Charge-offs were taken on these loans where the fair value less costs to sell the collateral was less than the recorded investment of the loan and were \$134 million.

(c) Nonperforming loans exclude certain government insured or guaranteed loans, loans held for sale, loans accounted for under the fair value option and purchased impaired loans.

(d) Past due loan amounts include government insured or guaranteed consumer loans of \$.7 billion, \$.8 billion, \$1.0 billion, \$1.0 billion and \$2.2 billion at December 31, 2016, 2015, 2014, 2013 and 2012, respectively.

[Table of Contents](#)
SUMMARY OF LOAN LOSS EXPERIENCE

Year ended December 31 – dollars in millions	2016	2015	2014	2013	2012
Allowance for loan and lease losses – January 1	\$2,727	\$3,331	3,609	\$ 4,036	\$ 4,347
Gross charge-offs					
Commercial	(332)	(206)	(276)	(395)	(474)
Commercial real estate	(26)	(44)	(70)	(203)	(314)
Equipment lease financing	(5)	(5)	(14)	(8)	(16)
Home equity	(143)	(181)	(275)	(486)	(560)
Residential real estate	(14)	(24)	(40)	(133)	(110)
Credit card	(161)	(160)	(163)	(178)	(200)
Other consumer	(205)	(185)	(183)	(185)	(196)
Total charge-offs	(886)	(805)	(1,021)	(1,588)	(1,870)
Recoveries					
Commercial	117	170	207	248	300
Commercial real estate	51	66	84	93	115
Equipment lease financing	10	4	14	16	30
Home equity	84	93	78	73	61
Residential real estate	9	13	26	4	(1)
Credit card	19	21	21	22	26
Other consumer	53	52	60	55	50
Total recoveries	343	419	490	511	581
Net charge-offs	(543)	(386)	(531)	(1,077)	(1,289)
Provision for credit losses	433	255	273	643	987
Net change in allowance for unfunded loan commitments and letters of credit	(40)	(2)	(17)	8	(10)
Net recovery/(write-offs) of purchased impaired loans and other (a)	12	(471)	(3)	(1)	1
Allowance for loan and lease losses – December 31	\$2,589	\$2,727	3,331	\$ 3,609	\$ 4,036
Allowance as a percentage of December 31:					
Loans (a)	1.23%	1.32%	1.63%	1.84%	2.17%
Nonperforming loans	121%	128%	133%	117%	124%
As a percentage of average loans:					
Net charge-offs	.26%	.19%	.27%	.57%	.73%
Provision for credit losses	.21%	.12%	.14%	.34%	.56%
Allowance for loan and lease losses (a)	1.24%	1.33%	1.67%	1.90%	2.28%
Allowance as a multiple of net charge-offs	4.77x	7.06x	6.27x	3.35x	3.13x

(a) See Note 1 Accounting Policies in our 2015 Form 10-K for information on our change in derecognition policy effective December 31, 2015 for certain purchased impaired loans.

Table of Contents

The following table presents the assignment of the allowance for loan and lease losses and the categories of loans as a percentage of total loans. Changes in the allocation over time reflect the changes in loan portfolio composition, risk profile and refinements to reserve methodologies.

ALLOCATION OF ALLOWANCE FOR LOAN AND LEASE LOSSES

December 31 Dollars in millions	2016		2015		2014		2013		2012	
	Allowance	Loans to Total Loans	Allowance	Loans to Total Loans	Allowance	Loans to Total Loans	Allowance	Loans to Total Loans	Allowance	Loans to Total Loans
Commercial	\$ 1,179	48.1%	\$ 1,286	47.7%	\$ 1,209	47.6%	\$ 1,100	45.2%	\$ 1,131	44.7%
Commercial real estate	320	13.8	281	13.3	318	11.4	400	10.8	589	10.0
Equipment lease financing	35	3.6	38	3.6	44	3.7	47	3.9	54	3.9
Home equity	357	14.2	484	15.5	872	16.9	1,051	18.6	1,044	19.3
Residential real estate	332	7.4	307	7.0	561	7.0	642	7.7	847	8.2
Credit card	181	2.5	167	2.4	173	2.3	169	2.3	199	2.3
Other consumer	185	10.4	164	10.5	154	11.1	200	11.5	172	11.6
Total	\$ 2,589	100.0%	\$ 2,727	100.0%	\$ 3,331	100.0%	\$ 3,609	100.0%	\$ 4,036	100.0%

TIME DEPOSITS

The aggregate amount of time deposits with a denomination of \$100,000 or more was \$7.7 billion at December 31, 2016 and \$9.4 billion at December 31, 2015. Time deposits of \$100,000 or more included time deposits in foreign offices of \$1.7 billion at December 31, 2016. Domestic time deposits of \$100,000 or more were \$6.0 billion at December 31, 2016 with the following maturities:

December 31, 2016 – in billions	Domestic Certificates of Deposit
Three months or less	\$ 1.6
Over three through six months	1.0
Over six through twelve months	1.5
Over twelve months	1.9
Total	\$ 6.0

SELECTED LOAN MATURITIES AND INTEREST SENSITIVITY

December 31, 2016 In millions	1 Year or Less	1 Through 5 Years	After 5 Years	Gross Loans
Commercial	\$27,656	\$64,109	\$ 9,599	\$101,364
Commercial real estate	7,404	15,658	5,948	29,010
Total	\$35,060	\$79,767	\$15,547	\$130,374
Loans with:				
Predetermined rate	\$ 5,902	\$11,116	\$ 6,392	\$ 23,410
Floating or adjustable rate	29,158	68,651	9,155	106,964
Total	\$35,060	\$79,767	\$15,547	\$130,374

At December 31, 2016, we had no pay-fixed interest rate swaps designated to commercial loans as part of fair value hedge strategies. At December 31, 2016, \$17.5 billion notional amount of receive-fixed interest rate swaps were designated as part of cash flow hedging strategies that converted the floating rate (1 month LIBOR) on the underlying commercial loans to a fixed rate as part of risk management strategies.

COMMON STOCK PRICES/DIVIDENDS DECLARED

The table below sets forth by quarter the range of high and low sale and quarter-end closing prices for The PNC Financial Services Group, Inc. common stock and the cash dividends declared per common share.

	High	Low	Close	Cash Dividends Declared(a)
2016 Quarter				
First	\$ 94.26	\$77.67	\$ 84.57	\$.51
Second	90.85	77.40	81.39	.51
Third	91.39	77.86	90.09	.55
Fourth	118.57	87.34	116.96	.55
Total				\$ 2.12
2015 Quarter				
First	\$ 96.71	\$81.84	\$ 93.24	\$.48
Second	99.61	90.42	95.65	.51
Third	100.52	82.77	89.20	.51
Fourth	97.50	84.93	95.31	.51
Total				\$ 2.01

(a) Our Board of Directors approved a first quarter 2017 cash dividend of \$.55 per common share, which was payable on February 5, 2017.

[Table of Contents](#)
TRANSITIONAL BASEL III AND PRO FORMA FULLY PHASED-IN BASEL III COMMON EQUITY TIER 1 CAPITAL RATIOS (NON-GAAP) – 2012-2015 PERIODS

Our regulatory risk-based ratios in 2015 were calculated using the standardized approach, effective January 1, 2015, for determining risk-weighted assets, and the definitions of, and deductions from, regulatory capital under the Basel III rules (as such definitions and deductions were phased-in for 2015). We refer to the capital ratios calculated using the phased-in Basel III provisions in effect for 2015 and, for the risk-based ratios, standardized approach risk-weighted assets as the 2015 Transitional Basel III ratios.

	Transitional Basel III		Pro forma Fully Phased-In Basel III (Non-GAAP) (a) (b)			
	December 31 2015	December 31 2014	December 31 2015	December 31 2014	December 31 2013	December 31 2012
Dollars in millions						
Common stock, related surplus and retained earnings, net of treasury stock	\$ 41,128	\$ 40,103	\$ 41,128	\$ 40,103	\$ 38,031	\$ 34,579
Less regulatory capital adjustments:						
Goodwill and disallowed intangibles, net of deferred tax liabilities	(8,972)	(8,939)	(9,172)	(9,276)	(9,321)	(9,445)
Basel III total threshold deductions	(470)	(212)	(1,294)	(1,081)	(1,386)	(2,330)
Accumulated other comprehensive income (c)	(81)	40	(201)	201	196	276
All other adjustments	(112)	(63)	(182)	(121)	(64)	(579)
Basel III Common equity Tier 1 capital	\$ 31,493	\$ 30,929	\$ 30,279	\$ 29,826	\$ 27,456	\$ 22,501
Basel III standardized approach risk-weighted assets (d)	\$ 295,905	\$ 284,018	\$ 303,707	\$ 298,786	\$ 291,977	\$ N/A
Basel III advanced approaches risk-weighted assets (e)	N/A	N/A	264,931	\$ 285,870	\$ 290,080	\$ 301,006
Basel III Common equity Tier 1 capital ratio	10.6%	10.9%	10.0%	10.0%	9.4%	7.5%
	Standardized (with 2015 transition adjustments)	Standardized (with 2014 transition adjustments)	Standardized			Advanced

Risk weight and associated rules utilized

- (a) We utilize the pro forma fully phased-in Basel III capital ratios, to assess our capital position (without the benefit of phase-ins), as these ratios represent the regulatory capital standards that will be ultimately applicable to us under the final Basel III rules.
- (b) Basel III capital ratios and estimates may be impacted by additional regulatory guidance or analysis, and, in the case of those ratios calculated using the advanced approaches, may be subject to variability based on the ongoing evolution, validation and regulatory approval of our models that are integral to the calculation of advanced approaches risk-weighted assets as we move through the parallel run process.
- (c) Represents net adjustments related to accumulated other comprehensive income for securities currently and previously held as available for sale, as well as pension and other postretirement plans.
- (d) Basel III standardized approach risk-weighted assets are based on the Basel III standardized approach rules and include credit and market risk-weighted assets. The Transitional Basel III ratio in 2014 was based on the definitions of, and deductions from, capital under Basel III (as such definitions and deductions are phased-in for 2014) and Basel I risk-weighted assets (subject to certain adjustments as defined by the Basel III rules).
- (e) Basel III advanced approaches risk-weighted assets are based on the Basel III advanced approaches rules, and include credit, market and operational risk-weighted assets. During the parallel run qualification phase we have refined the data, models and internal processes used as part of the advanced approaches for determining risk-weighted assets. Refinements implemented in the fourth quarter of 2015 reduced estimated Basel III advanced approaches risk-weighted assets. We anticipate additional refinements to this estimate through the parallel run qualification phase.

BASEL I TIER 1 COMMON CAPITAL RATIO (a) (b)

	December 31 2013	December 31 2012
Dollars in millions		
Basel I Tier 1 common capital	\$ 28,484	24,951
Basel I risk-weighted assets	272,169	260,847
Basel I Tier 1 common capital ratio	10.5%	9.6%

- (a) Effective January 1, 2014, the Basel I Tier 1 common capital ratio no longer applies to us (except for stress testing purposes). Our 2013 Form 10-K included additional information regarding our Basel I capital ratios.
- (b) Amounts have not been updated to reflect the first quarter 2014 adoption of ASU 2014-01 related to investments in low income housing tax credits.

ITEM 9 – CHANGES IN AND DISAGREEMENTS WITH ACCOUNTANTS ON ACCOUNTING AND FINANCIAL DISCLOSURE

None.

ITEM 9A – CONTROLS AND PROCEDURES

MANAGEMENT’S REPORT ON INTERNAL CONTROL OVER FINANCIAL REPORTING

The management of The PNC Financial Services Group, Inc. and subsidiaries (PNC) is responsible for establishing and maintaining adequate internal control over financial reporting, as such term is defined in the Exchange Act Rule 13a-15(f).

Because of inherent limitations, internal control over financial reporting may not prevent or detect misstatements. Also, projections of any evaluation of effectiveness to future periods are subject to the risk that controls may become inadequate because of changes in conditions, or that the degree of compliance with the policies or procedures may deteriorate.

We performed an evaluation under the supervision and with the participation of our management, including the Chairman, President and Chief Executive Officer and the Executive Vice President and Chief Financial Officer, of the effectiveness of PNC’s internal control over financial reporting as of December 31, 2016. This assessment was based on criteria for effective internal control over financial reporting described in *Internal Control-Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission. Based on this assessment, management concluded that PNC maintained effective internal control over financial reporting as of December 31, 2016.

PricewaterhouseCoopers LLP, the independent registered public accounting firm that audited our consolidated financial statements as of and for the year ended December 31, 2016 included in this Report, has also audited the effectiveness of PNC’s internal control over financial reporting as of December 31, 2016. The report of PricewaterhouseCoopers LLP is included under Item 8 of this Report.

DISCLOSURE CONTROLS AND PROCEDURES AND CHANGES IN INTERNAL CONTROL OVER FINANCIAL REPORTING

As of December 31, 2016, we performed an evaluation under the supervision and with the participation of our management, including the Chairman, President and Chief Executive Officer and the Executive Vice President and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures and of changes in our internal control over financial reporting.

Based on that evaluation, our Chairman, President and Chief Executive Officer and our Executive Vice President and Chief Financial Officer concluded that our disclosure controls and procedures (as defined in Rule 13a-15(e) under the Securities and Exchange Act of 1934, as amended) were effective as of December 31, 2016, and that there has been no change in PNC’s internal control over financial reporting that occurred during the fourth quarter of 2016 that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

ITEM 9B – OTHER INFORMATION

None.

PART III

ITEM 10 – DIRECTORS, EXECUTIVE OFFICERS AND CORPORATE GOVERNANCE

Certain of the information regarding our directors (or nominees for director), executive officers and Audit Committee (and Audit Committee financial experts), required by this item is included under the captions “Election of Directors (Item 1),” and “Corporate Governance – Board committees – Audit Committee,” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference.

Additional information regarding our executive officers and our directors is included in Part I of this Report under the captions “Executive Officers of the Registrant” and “Directors of the Registrant.”

Information regarding our compliance with Section 16(a) of the Securities Exchange Act of 1934 is included under the caption “Section 16(a) Beneficial Ownership Reporting Compliance” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference.

Certain information regarding our PNC Code of Business Conduct and Ethics required by this item is included under the caption “Corporate Governance – Our Code of Business Conduct and Ethics” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference. Our PNC Code of Business Conduct and Ethics is available on our corporate website at www.pnc.com/corporategovernance. In addition, any future amendments to, or waivers from, a provision of the PNC Code of Business Conduct and Ethics that applies to our directors or executive officers (including our principal executive officer, principal financial officer, and principal accounting officer or controller) will be posted at this internet address.

ITEM 11 – EXECUTIVE COMPENSATION

The information required by this item is included under the captions “Corporate Governance – Board committees – Personnel and Compensation Committee – Compensation committee interlocks and insider participation,” “Director Compensation,” “Compensation Discussion and Analysis,” “Compensation Committee Report,” “Compensation and Risk,” “Compensation Tables,” and “Change in Control and Termination of Employment” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference. In accordance with Item 407(e)(5) of Regulation S-K, the information set forth under the caption “Compensation Committee Report” in such Proxy Statement will be deemed to be furnished in this Report and will not be deemed to be incorporated by reference into any filing under the Securities Act or the Exchange Act as a result of furnishing the disclosure in this manner.

ITEM 12 – SECURITY OWNERSHIP OF CERTAIN BENEFICIAL OWNERS AND MANAGEMENT AND RELATED STOCKHOLDER MATTERS

The information required by this item regarding security ownership of certain beneficial owners and management is included under the caption “Security Ownership of Management and Certain Beneficial Owners” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference.

Information regarding our compensation plans under which PNC equity securities are authorized for issuance as of December 31, 2016 is included in the table which follows. Additional information regarding these plans is included in Note 12 Stock Based Compensation Plans in the Notes To Consolidated Financial Statements in Item 8 of this Report.

Equity Compensation Plan Information At December 31, 2016

	(a)	(b)	(c)
Plan Category	Number of securities to be issued upon exercise of outstanding options, warrants and rights	Weighted-average exercise price of outstanding options, warrants and rights (1)	Number of securities remaining available for future issuance under equity compensation plans (excluding securities reflected in column (a))
Equity compensation plans approved by security holders	8,403,491 (2)	\$ 55.16	39,890,803 (3)
Equity compensation plans not approved by security holders	177,806 (4)	\$ 399.58	
Total	8,581,297	\$ 74.84	39,890,803

(1) – The weighted-average exercise price does not take into account restricted stock units or incentive performance units because they have no exercise price.

(2) – Of this total, 61,801 are stock-payable restricted stock units that relate to the 2016 Incentive Award Plan (2016 Incentive Plan), approved by shareholders on April 26, 2016, and the following amounts relate to the 2006 Incentive Award Plan, as amended and restated (2006 Incentive Plan): 2,934,392 are stock options, 4,901,627 are stock-payable restricted stock units (at a maximum award level), and 505,671 are incentive performance unit awards (at a maximum share award level). For incentive performance unit awards, upon achievement of performance goals and other conditions above target level, payment is made in cash share equivalents, up to a maximum of 25% of the target number of share units.

Following shareholder approval of the 2016 Incentive Plan, no further grants were permitted under the 2006 Incentive Plan. All outstanding grants under our 1997 Long Term Incentive Award Plan expired in 2016.

(3) – Includes 744,226 shares available for issuance under the Employee Stock Purchase Plan, of which 72,906 shares are subject to purchase during the purchase period ending December 31, 2016. The amount available for awards under the 2016 Incentive Plan is 39,146,577.

(4) – Represents 177,806 shares subject to options outstanding under pre-acquisition plans of National City Corporation, which was merged into PNC on December 31, 2008. Pursuant to the merger agreement, awards granted under the National City plans were converted into awards of PNC common stock. No further awards may be made under these plans.

All outstanding awards under the pre-acquisition plans of Sterling Financial Corporation, which was merged into PNC on April 4, 2008, expired in 2016.

ITEM 13 – CERTAIN RELATIONSHIPS AND RELATED TRANSACTIONS, AND DIRECTOR INDEPENDENCE

The information required by this item is included under the captions “Director and Executive Officer Relationships –Director independence, – Transactions with directors, – Family relationships, and – Indemnification and advancement of costs” and “Related Person Transactions” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference.

ITEM 14 – PRINCIPAL ACCOUNTING FEES AND SERVICES

The information required by this item is included under the caption “Ratification of Independent Registered Public Accounting Firm (Item 2) – Audit, audit-related and permitted non-audit fees, – Procedures for pre-approving audit services, audit-related services and permitted non-audit services” in our Proxy Statement to be filed for the 2017 annual meeting of shareholders and is incorporated herein by reference.

PART IV

ITEM 15 – EXHIBITS, FINANCIAL STATEMENT SCHEDULES

FINANCIAL STATEMENTS, FINANCIAL STATEMENT SCHEDULES

Our consolidated financial statements required in response to this Item are incorporated by reference from Item 8 of this Report.

Audited consolidated financial statements of BlackRock, Inc. as of December 31, 2016 and 2015 and for each of the three years in the period ended December 31, 2016 are filed with this Report as Exhibit 99.1 and incorporated herein by reference.

EXHIBITS

Our exhibits listed on the Exhibit Index on pages E-1 through E-9 of this Form10-K are filed with this Report or are incorporated herein by reference.

Table of Contents

SIGNATURES

Pursuant to the requirements of Section 13 or 15(d) of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

The PNC Financial Services Group, Inc.
(Registrant)

By: /s/ Robert Q. Reilly

Robert Q. Reilly
Executive Vice President and Chief Financial Officer
February 28, 2017

Pursuant to the requirements of the Securities Exchange Act of 1934, this report has been signed below by the following persons on behalf of The PNC Financial Services Group, Inc. and in the capacities indicated on February 28, 2017.

<u>Signature</u>	<u>Capacities</u>
<u>/s/ William S. Demchak</u> William S. Demchak	Chairman, President, Chief Executive Officer and Director (Principal Executive Officer)
<u>/s/ Robert Q. Reilly</u> Robert Q. Reilly	Executive Vice President and Chief Financial Officer (Principal Financial Officer)
<u>/s/ Gregory H. Kozich</u> Gregory H. Kozich	Senior Vice President and Controller (Principal Accounting Officer)
* Charles E. Bunch; Marjorie Rodgers Cheshire; Andrew T. Feldstein; Daniel R. Hesse; Kay Coles James; Richard B. Kelson; Jane G. Pepper; Donald J. Shepard; Lorene K. Steffes; Dennis F. Strigl; Michael J. Ward; Gregory D. Wasson	Directors
*By: <u>/s/ Christi Davis</u> Christi Davis, Attorney-in-Fact, pursuant to Powers of Attorney filed herewith	

EXHIBIT INDEX

Exhibit No.	Description	Method of Filing +
3.1.1	Amended and Restated Articles of Incorporation of the Corporation, effective January 2, 2009	Incorporated herein by reference to Exhibit 3.1 to the Corporation's Annual Report on Form 10-K for the year ended December 31, 2008 (2008 Form 10-K)
3.1.2	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series O dated July 21, 2011	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed July 27, 2011
3.1.3	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series P dated April 19, 2012	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed April 24, 2012
3.1.4	Statement with Respect to Shares of 5.375% Non-Cumulative Perpetual Preferred Stock, Series Q dated September 14, 2012	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed September 21, 2012
3.1.5	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series R dated May 2, 2013	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed May 7, 2013
3.1.6	Amendment to Amended and Restated Articles of Incorporation of the Corporation, effective November 19, 2015	Incorporated herein by reference to Exhibit 3.1.6 of the Corporation's Current Report on Form 8-K filed November 20, 2015
3.1.7	Statement with Respect to Shares of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series S dated October 27, 2016	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed November 1, 2016
3.2	By-Laws of the Corporation, as amended and restated, effective August 11, 2016	Incorporated herein by reference to Exhibit 3.2 of the Corporation's Current Report on Form 8-K filed August 11, 2016
4.1	There are no instruments with respect to long-term debt of the Corporation and its subsidiaries that involve a total amount of securities authorized thereunder that exceed 10 percent of the total assets of the Corporation and its subsidiaries on a consolidated basis. The Corporation agrees to provide the SEC with a copy of instruments defining the rights of holders of long-term debt of the Corporation and its subsidiaries on request.	
4.2	Terms of \$1.80 Cumulative Convertible Preferred Stock, Series B	Incorporated herein by reference to Exhibit 3.1 of the Corporation's 2008 Form 10-K
4.3	Terms of 7.00% Non-Cumulative Preferred Stock, Series H	Incorporated herein by reference to Exhibit 3.1 of the Corporation's 2008 Form 10-K
4.4	Terms of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series I	Incorporated herein by reference to Exhibit 3.1 of the Corporation's 2008 Form 10-K
4.5	Terms of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series O	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed July 27, 2011
4.6	Terms of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series P	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed April 24, 2012
4.7	Terms of 5.375% Non-Cumulative Perpetual Preferred Preferred Stock, Series Q	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed September 21, 2012

Table of Contents

4.8	Terms of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series R	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed May 7, 2013
4.9	Terms of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series S	Incorporated herein by reference to Exhibit 3.1 of the Corporation's Current Report on Form 8-K filed November 1, 2016
4.10	Warrants for Purchase of Shares of PNC Common Stock	Incorporated herein by reference to Exhibit 4.2 (included as part of Exhibit 4.1) of the Corporation's Form 8-A filed April 30, 2010
4.11	Deposit Agreement dated July 27, 2011, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series O preferred stock	Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed July 27, 2011
4.12	Deposit Agreement, dated April 24, 2012, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series P preferred stock	Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed April 24, 2012
4.13	Deposit Agreement, dated September 21, 2012, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series Q preferred stock	Incorporated by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed September 21, 2012
4.14	Deposit Agreement, dated May 7, 2013, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series R preferred stock	Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed May 7, 2013
4.15	Deposit Agreement, dated November 1, 2016, between the Corporation, Computershare Trust Company, N.A., Computershare Inc. and the holders from time to time of the Depositary Receipts representing interests in the Series S preferred stock	Incorporated herein by reference to Exhibit 4.2 of the Corporation's Current Report on Form 8-K filed November 1, 2016
4.16	Form of PNC Bank, National Association Global Bank Note for Fixed Rate Global Senior Bank Note issued prior to January 16, 2014 with Maturity of more than Nine Months from Date of Issuance	Incorporated herein by reference to Exhibit 4.9 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2004 (3rd Quarter 2004 Form 10-Q)
4.17	Form of PNC Bank, National Association Global Bank Note for Floating Rate Global Senior Bank Note issued prior to January 16, 2014 with Maturity of more than Nine Months from Date of Issuance	Incorporated herein by reference to Exhibit 4.10 of the Corporation's 3rd Quarter 2004 Form 10-Q
4.18	Form of PNC Bank, National Association Global Bank Note for Fixed Rate Global Subordinated Bank Note issued prior to January 16, 2014 with Maturity of more than Nine Months from Date of Issuance	Incorporated herein by reference to Exhibit 4.11 of the Corporation's 3rd Quarter 2004 Form 10-Q
4.19	Form of PNC Bank, National Association Global Bank Note for Floating Rate Global Subordinated Bank Note issued prior to January 16, 2014 with Maturity of more than Nine Months from Date of Issuance	Incorporated herein by reference to Exhibit 4.12 of the Corporation's 3rd Quarter 2004 Form 10-Q

Table of Contents

4.20.1	Issuing and Paying Agency Agreement, dated January 16, 2014, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$25 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated by reference to Exhibit 4.25 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2013 (2013 Form 10-K)
4.20.2	Amendment No. 1 to Issuing and Paying Agency Agreement, dated May 22, 2015, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$30 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated by reference to Exhibit 4.21.2 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2015 (2nd Quarter 2015 Form 10-Q)
4.20.3	Amendment No. 2 to Issuing and Paying Agency Agreement, dated May 27, 2016, between PNC Bank, National Association and PNC Bank, National Association, relating to the \$40 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated herein by reference to Exhibit 4.20.3 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2016 (2nd Quarter 2016 Form 10-Q)
4.21	Form of PNC Bank, National Association Global Bank Note for Fixed Rate Global Senior Bank Note issued after January 16, 2014 with Maturity of more than Nine Months from Date of Issuance (included in Exhibit 4.20.1)	Incorporated by reference to Exhibit 4.25 of the Corporation's 2013 Form 10-K
4.22	Form of PNC Bank, National Association Global Bank Note for Floating Rate Global Senior Bank Note issued after January 16, 2014 with Maturity of more than Nine Months from Date of Issuance (included in Exhibit 4.20.1)	Incorporated by reference to Exhibit 4.25 of the Corporation's 2013 Form 10-K
4.23	Form of PNC Bank, National Association Global Bank Note for Extendible Floating Rate Global Senior Bank Note issued after January 16, 2014 with Maturity of more than Nine Months from Date of Issuance	Incorporated by reference to Exhibit 4.28 of the Corporation's 2013 Form 10-K
4.24	Form of PNC Bank, National Association Global Bank Note for Fixed Rate Global Subordinated Bank Note issued after January 16, 2014 but before May 22, 2015 with Maturity of five years or more from Date of Issuance (included in Exhibit 4.20.1)	Incorporated by reference to Exhibit 4.25 of the Corporation's 2013 Form 10-K
4.25	Form of PNC Bank, National Association Global Bank Note for Fixed Rate Global Subordinated Bank Note issued on or after May 22, 2015 with Maturity of five years or more from Date of Issuance (included in Exhibit 4.20.2)	Incorporated by reference to Exhibit 4.21.2 of the Corporation's 2nd Quarter 2015 Form 10-Q
4.26	Form of PNC Bank, National Association Global Bank Note for Floating Rate Global Subordinated Bank Note issued after January 16, 2014 but before May 22, 2015 with Maturity of five years or more from Date of Issuance (included in Exhibit 4.20.1)	Incorporated by reference to Exhibit 4.25 of the Corporation's 2013 Form 10-K
4.27	Form of PNC Bank, National Association Global Bank Note for Floating Rate Global Subordinated Bank Note issued on or after May 22, 2015 with Maturity of five years or more from Date of Issuance (included in Exhibit 4.20.2)	Incorporated herein by reference to Exhibit 4.21.2 of the Corporation's 2nd Quarter 2015 Form 10-Q
4.28	Exchange Agreement, dated as of March 29, 2007, by and among the Corporation, PNC Bank, National Association, and PNC Preferred Funding Trust II	Incorporated herein by reference to Exhibit 4.16 of the Corporation's Current Report on Form 8-K filed March 30, 2007
10.1.1	The Corporation's Supplemental Executive Retirement Plan, as amended and restated effective January 1, 2009	Incorporated herein by reference to Exhibit 10.2 to the Corporation's 2008 Form 10-K*

Table of Contents

10.1.2	Amendment 2009-1 to the Corporation's Supplemental Executive Retirement Plan as amended and restated as of January 1, 2009	Incorporated herein by reference to Exhibit 10.3 to the Corporation's Annual Report on Form 10-K for the year ended December 31, 2009 (2009 Form 10-K)*
10.1.3	Amendment 2013-1 to the Corporation's Supplemental Executive Retirement Plan as amended and restated as of January 1, 2009	Incorporated by reference to Exhibit 10.1.3 of the Corporation's 2013 Form 10-K*
10.2.1	The Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009	Incorporated herein by reference to Exhibit 10.4 to the Corporation's 2008 Form 10-K*
10.2.2	Amendment 2009-1 to the Corporation's ERISA Excess Plan as amended and restated effective January 1, 2009	Incorporated herein by reference to Exhibit 10.6 to the Corporation's 2009 Form 10-K*
10.2.3	Amendment 2011-1 to the Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009	Incorporated herein by reference to Exhibit 10.8 to the Corporation's Annual Report on Form 10-K for the year ended December 31, 2011 (2011 Form 10-K)*
10.2.4	Amendment 2013-1 to the Corporation's ERISA Excess Pension Plan, as amended and restated effective January 1, 2009	Incorporated by reference to Exhibit 10.2.4 of the Corporation's 2013 Form 10-K*
10.3.1	The Corporation's Key Executive Equity Program, as amended and restated effective January 1, 2009	Incorporated herein by reference to Exhibit 10.6 to the Corporation's 2008 Form 10-K*
10.3.2	Amendment 2009-1 to the Corporation's Key Executive Equity Program as amended and restated as of January 1, 2009	Incorporated herein by reference to Exhibit 10.9 to the Corporation's 2009 Form 10-K*
10.4.1	The Corporation's Supplemental Incentive Savings Plan, as amended and restated effective January 1, 2010	Incorporated herein by reference to Exhibit 10.17 of the Corporation's 2011 Form 10-K*
10.4.2	Amendment 2013-1 to the Corporation's Supplemental Incentive Savings Plan, as amended and restated effective January 1, 2010	Incorporated by reference to Exhibit 10.4.2 of the Corporation's 2013 Form 10-K*
10.5.1	The Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated herein by reference to Exhibit 10.62 to the Corporation's 2nd Quarter 2009 Form 10-Q*
10.5.2	Amendment 2009-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated herein by reference to Exhibit 10.17 to the Corporation's 2009 Form 10-K*
10.5.3	Amendment 2010-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated herein by reference to Exhibit 10.20 of the Corporation's 2010 Form 10-K*
10.5.4	Amendment 2011-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated herein by reference to Exhibit 10.23 of the Corporation's 2011 Form 10-K*
10.5.5	Amendment 2012-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated herein by reference to Exhibit 10.24 to the Corporation's Annual Report on Form 10-K for the year ended December 31, 2012 (2012 Form 10-K)*
10.5.6	Amendment 2013-1 to the Corporation and Affiliates Deferred Compensation Plan, as amended and restated May 5, 2009	Incorporated by reference to Exhibit 10.5.6 of the Corporation's 2013 Form 10-K*
10.6.1	The Corporation and Affiliates Deferred Compensation and Incentive Plan, effective as of January 1, 2012	Incorporated herein by reference to Exhibit 4.4 of the Corporation's Registration Statement on Form S-8 No.333-177896 filed November 10, 2011*
10.6.2	Amendment 2013-1 to the Corporation and Affiliates Deferred Compensation and Incentive Plan, effective as of January 1, 2012	Incorporated by reference to Exhibit 10.6.2 of the Corporation's 2013 Form 10-K*

Table of Contents

10.7	The Corporation and Affiliates Deferred Compensation and Incentive Plan, as amended and restated effective January 1, 2017	Filed herewith*
10.8	The PNC Financial Services Group, Inc. 2016 Incentive Award Plan	Incorporated herein by reference to Exhibit 99.1 of the Corporation's Form S-8 (File No. 333-210995) filed April 29, 2016*
10.9.1	The Corporation's 2006 Incentive Award Plan, as amended and restated effective as of March 11, 2011	Incorporated herein by reference to Exhibit 10.70 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2011 (1st Quarter 2011 Form 10-Q)*
10.9.2	Addendum to the Corporation's 2006 Incentive Award Plan, effective as of January 26, 2012	Incorporated herein by reference to Exhibit 10.28 of the Corporation's 2011 Form 10-K*
10.10	The Corporation's 1997 Long-Term Incentive Award Plan, as amended and restated	Incorporated herein by reference to Exhibit 10.5 of the Corporation's 2nd Quarter 2004 Form 10-Q*
10.11	The Corporation's 1996 Executive Incentive Award Plan, as amended and restated effective as of January 1, 2007	Incorporated herein by reference to Exhibit 10.10 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2007 (2007 Form 10-K)*
10.12	The Corporation's Directors Deferred Compensation Plan, as amended and restated effective January 1, 2012	Incorporated herein by reference to Exhibit 10.32 of the Corporation's 2011 Form 10-K*
10.13	The Corporation's Directors Deferred Compensation Plan, as amended and restated effective January 1, 2015	Incorporated herein by reference to Exhibit 10.52 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2014 (3rd Quarter 2014 10-Q)*
10.14	The Corporation's Outside Directors Deferred Stock Unit Plan, as amended and restated effective January 1, 2012	Incorporated herein by reference to Exhibit 10.34 of the Corporation's 2011 Form 10-K*
10.15	The Corporation's Outside Directors Deferred Stock Unit Plan, as amended and restated effective January 1, 2015	Incorporated herein by reference to Exhibit 10.53 of the Corporation's 3rd Quarter 2014 10-Q*
10.16	The Corporation's 2016 Incentive Award Plan Directors Deferred Stock Unit Program effective January 1, 2017	Filed herewith*
10.17	Amended and Restated Trust Agreement between PNC Investment Corp., as settlor, and Hershey Trust Company, as trustee	Incorporated herein by reference to Exhibit 10.35 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2005 (3rd Quarter 2005 Form 10-Q)*
10.18	Trust Agreement between PNC Investment Corp., as settlor, and PNC Bank, National Association, as trustee	Incorporated herein by reference to Exhibit 10.34 of the Corporation's 3rd Quarter 2005 Form 10-Q*
10.19	Certificate of Corporate Action for Grantor Trusts effective January 1, 2012	Incorporated herein by reference to Exhibit 10.37 of the Corporation's 2011 Form 10-K*
10.20	The Corporation's Employee Stock Purchase Plan, as amended and restated as of January 1, 2014	Incorporated by reference to Exhibit 10.16 of the Corporation's 2013 Form 10-K
10.21	2006 forms of restricted deferral agreements	Incorporated herein by reference to the restricted deferral agreements portions of Exhibit 10.17 of the Corporation's 2005 Form 10-K*
10.22	2007 forms of employee stock option agreements	Incorporated herein by reference to the employee stock option agreements portion of Exhibit 10.21 of the Corporation's 2006 Form 10-K*

Table of Contents

10.23	2008 forms of employee stock option and restricted share unit agreements	Incorporated herein by reference to the employee stock option and restricted share units agreements portions of Exhibit 10.26 of the Corporation's 2007 Form 10-K*
10.24	Form of employee stock option agreement with varied vesting schedule or circumstances	Incorporated herein by reference to Exhibit 10.50 of the Corporation's Current Report on Form 8-K filed April 18, 2008*
10.25	Form of employee restricted stock agreement with varied vesting schedule or circumstances	Incorporated herein by reference to Exhibit 10.51 of the Corporation's Current Report on Form 8-K filed April 18, 2008*
10.26	Form of employee stock option agreement with performance vesting schedule	Incorporated herein by reference to Exhibit 10.54 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2008*
10.27	2009 forms of employee stock option, restricted stock and restricted share unit agreements	Incorporated by reference to the employee stock option, restricted stock and restricted share unit agreements portions of Exhibit 10.61 to the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2009*
10.28	2010 forms of employee stock option, restricted stock, and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.48 to the Corporation's 2009 Form 10-K*
10.29	2011 forms of employee stock option, restricted stock, restricted share unit and performance unit agreements	Incorporated herein by reference to Exhibit 10.71 of the Corporation's 1st Quarter 2011 Form 10-Q*
10.30	2012 forms of employee stock option, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.77 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2012 (1st Quarter 2012 Form 10-Q)*
10.31	Forms of employee stock option, restricted stock and restricted share unit agreements with varied vesting, payment and other circumstances	Incorporated herein by reference to Exhibit 10.78 of the Corporation's 1st Quarter 2012 Form 10-Q*
10.32	Additional 2012 forms of employee performance unit, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.79 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2012 (2nd Quarter 2012 Form 10-Q)*
10.33	2013 forms of employee stock option and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.64 of the Corporation's 2012 Form 10-K*
10.34	Additional 2013 forms of employee stock option, performance unit, restricted stock and restricted share unit agreements	Incorporated herein by reference to Exhibit 10.82 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2013*
10.35	Additional 2013 forms of employee restricted share unit agreements	Incorporated by reference to Exhibit 10.83 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2013*
10.36	Additional 2013 and 2014 forms of employee restricted share unit and performance unit agreements	Incorporated by reference to Exhibit 10.36 of the Corporation's 2013 Form 10-K*
10.37	Additional 2014 Forms of Employee Performance Unit and Restricted Share Unit Agreements	Incorporated herein by reference to Exhibit 10.50 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended June 30, 2014*
10.38	Additional 2014 Forms of Employee Restricted Share Unit Agreements	Incorporated herein by reference to Exhibit 10.51 of the Corporation's 3rd Quarter 2014 10-Q*
10.39	2015 Forms of Performance Restricted Share Unit Award Agreements	Incorporated herein by reference to Exhibit 10.50 of the Corporation's 2nd Quarter 2015 Form 10-Q

Table of Contents

10.40	2015 Forms of Incentive Performance Unit Award Agreements	Incorporated herein by reference to Exhibit 10.51 of the Corporation's 2nd Quarter 2015 Form 10-Q
10.41	2015 Forms of Restricted Share Unit Award Agreements	Incorporated herein by reference to Exhibit 10.52 of the Corporation's 2nd Quarter 2015 Form 10-Q
10.42	2016 Form of Performance Restricted Share Units Award Agreement	Incorporated herein by reference to Exhibit 10.52 of the Corporation's Quarterly Report on Form 10-Q for the quarter ended September 30, 2016 (3rd Quarter 2016 Form 10-Q)*
10.43	2016 Form of Incentive Performance Units Award Agreement	Incorporated herein by reference to Exhibit 10.53 of the Corporation's 3rd Quarter 2016 Form 10-Q*
10.44	2016 Form of Senior Leader Performance Restricted Share Units Award Agreement	Incorporated herein by reference to Exhibit 10.54 of the Corporation's 3rd Quarter 2016 Form 10-Q*
10.45	2016 Form of ALM Incentive Performance Units Award Agreement	Incorporated herein by reference to Exhibit 10.55 of the Corporation's 3rd Quarter 2016 Form 10-Q*
10.46	Form of time sharing agreements between the Corporation and certain executives	Incorporated herein by reference to Exhibit 10.39 to the Corporation's 2008 Form 10-K*
10.47	Form of Time-Sharing Agreement between the Corporation and certain executives	Incorporated by reference to Exhibit 10.49 of the Corporation's Current Report on Form 8-K filed April 4, 2014*
10.48	Form of change of control employment agreements	Incorporated herein by reference to Exhibit 10.51 of the Corporation's Current Report on Form 8-K filed August 16, 2016*
10.49.1	The National City Corporation 2004 Deferred Compensation Plan, as amended and restated effective January 1, 2005	Incorporated herein by reference to Exhibit 10.35 to National City Corporation's Quarterly Report on Form 10-Q for the quarter ended March 31, 2006
10.49.2	Amendment to The National City Corporation 2004 Deferred Compensation Plan, as amended and restated effective January 1, 2005	Incorporated herein by reference to Exhibit 10.56 of the Corporation's 2010 Form 10-K
10.50.1	Share Surrender Agreement, dated October 10, 2002, among Old BlackRock, PNC Asset Management, Inc., and the Corporation	Incorporated herein by reference to the Quarterly Report on Form 10-Q of BlackRock Holdco 2, Inc. (Commission File No. 001-15305) (referred to herein as Old BlackRock) for the quarter ended September 30, 2002 (Old BlackRock 3rd Quarter 2002 Form 10-Q)
10.50.2	First Amendment, dated as of February 15, 2006, to the Share Surrender Agreement among Old BlackRock, PNC Bancorp, Inc. and the Corporation	Incorporated herein by reference to the Current Report on Form 8-K of Old BlackRock (Commission File No. 001-15305) filed February 22, 2006 (Old BlackRock February 22, 2006 Form 8-K)
10.50.3	Second Amendment to Share Surrender Agreement made and entered into as of June 11, 2007 by and between the Corporation, BlackRock, Inc., and PNC Bancorp, Inc.	Incorporated herein by reference to Exhibit 10.50 of the Corporation's Current Report on Form 8-K filed June 14, 2007
10.50.4	Third Amendment to Share Surrender Agreement, dated as of February 27, 2009, between the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.3 of BlackRock, Inc.'s Current Report on Form 8-K filed February 27, 2009
10.50.5	Fourth Amendment to Share Surrender Agreement, dated as of August 7, 2012, among BlackRock, Inc., the Corporation and PNC Bancorp, Inc.	Incorporated herein by reference to Exhibit 10.1 of BlackRock, Inc.'s Form 10-Q for the quarter ended June 30, 2012

Table of Contents

10.51.1	Amended and Restated Implementation and Stockholder Agreement, dated as of February 27, 2009, between the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.2 of BlackRock, Inc.'s Current Report on Form 8-K filed February 27, 2009
10.51.2	Amendment No. 1, dated as of June 11, 2009, to the Amended and Restated Implementation and Stockholder Agreement between the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.2 of BlackRock, Inc.'s Current Report on Form 8-K filed June 17, 2009
10.52	Exchange Agreement dated as of May 21, 2012 by and among PNC Bancorp, Inc., the Corporation and BlackRock, Inc.	Incorporated herein by reference to Exhibit 10.3 of BlackRock, Inc.'s Current Report on Form 8-K filed May 23, 2012
10.53.1	Distribution Agreement, dated January 16, 2014, between PNC Bank, National Association and the Dealers named therein, relating to the \$25 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated by reference to Exhibit 10.47 of the Corporation's Annual Report on Form 10-K for the year ended December 31, 2014
10.53.2	Amendment No. 1 to Distribution Agreement, dated May 22, 2015, between PNC Bank, National Association and the Dealers named therein, relating to the \$30 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated herein by reference to Exhibit 10.47.2 of the Corporation's 2nd Quarter 2015 Form 10-Q
10.53.3	Amendment No. 2 to Distribution Agreement, dated May 27, 2016, between PNC Bank, National Association and the Dealers named therein, relating to the \$40 billion Global Bank Note Program for the Issue of Senior and Subordinated Bank Notes	Incorporated herein by reference to Exhibit 10.48.3 of the Corporation's 2nd Quarter 2016 Form 10-Q
10.54	Stock Purchase Agreement, dated as of February 1, 2010, by and between the Corporation and The Bank of New York Mellon Corporation	Incorporated herein by reference to Exhibit 2.1 to the Corporation's Current Report on Form 8-K filed February 3, 2010
12.1	Computation of Ratio of Earnings to Fixed Charges	Filed herewith
12.2	Computation of Ratio of Earnings to Fixed Charges and Preferred Dividends	Filed herewith
21	Schedule of Certain Subsidiaries of the Corporation	Filed herewith
23.1	Consent of PricewaterhouseCoopers LLP, the Corporation's Independent Registered Public Accounting Firm	Filed herewith
23.2	Consent of Deloitte & Touche LLP, Independent Registered Public Accounting Firm of BlackRock, Inc.	Filed herewith
24	Powers of Attorney	Filed herewith
31.1	Certification of Chief Executive Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
31.2	Certification of Chief Financial Officer pursuant to Section 302 of the Sarbanes-Oxley Act of 2002	Filed herewith
32.1	Certification of Chief Executive Officer pursuant to 18 U.S.C. Section 1350	Filed herewith
32.2	Certification of Chief Financial Officer pursuant to 18 U.S.C. Section 1350	Filed herewith
99.1	Audited consolidated financial statements of BlackRock, Inc. as of December 31, 2016 and 2015 and for each of the three years ended December 31, 2016	Filed herewith

Table of Contents

99.2	Consent order between The PNC Financial Services Group, Inc. and the Board of Governors of the Federal Reserve System	Incorporated herein by reference to Exhibit 99.1 of the Corporation's Current Report on Form 8-K filed April 14, 2011
101	Interactive Data File (XBRL)	Filed herewith
+	Incorporated document references to filings by the Corporation are to SEC FileNo. 001-09718, to filings by National City Corporation are to SEC FileNo. 001-10074, to filings by BlackRock through its second quarter 2006 Form 10-Q (referred to herein as Old BlackRock) are to BlackRock Holdco 2, Inc. SEC FileNo. 001-15305, and to filings by BlackRock, Inc. are to SEC File No. 001-33099.	
*	Denotes management contract or compensatory plan.	

You can obtain copies of these Exhibits electronically at the SEC's website at www.sec.gov or by mail from the Public Reference Section of the SEC at 100 F Street, N.E., Washington, D.C. 20549 at prescribed rates. The Exhibits are also available as part of this Form 10-K on PNC's corporate website at www.pnc.com/secfilings. Shareholders and bondholders may also obtain copies of Exhibits without charge by contacting Shareholder Relations at (800) 843-2206 or via e-mail at investor.relations@pnc.com. The Interactive Data File (XBRL) exhibit is only available electronically.

**THE PNC FINANCIAL SERVICES GROUP, INC. AND AFFILIATES
DEFERRED COMPENSATION AND INCENTIVE PLAN**

(amended and restated effective as of January 1, 2017)

WHEREAS, The PNC Financial Services Group, Inc. (the “Corporation”) and certain of its Affiliates previously adopted The PNC Financial Services Group, Inc. and Affiliates Deferred Compensation and Incentive Plan (the “Plan”), effective January 1, 2012,

WHEREAS, the Plan is intended to be an unfunded nonqualified deferred compensation plan that is a “top-hat plan” within the meaning of the Employee Retirement Income Security Act of 1974 (“ERISA”), as amended, under which a select group of management or highly compensated employees have the opportunity to defer receipt of eligible base salary and variable pay that is earned during an applicable Plan Year; and

WHEREAS, the Corporation now wishes to amend and restate the Plan to incorporate prior amendments and to make certain other clarifying changes.

NOW, THEREFORE, in consideration of the foregoing, the Plan is hereby amended and restated, effective January 1, 2017, to read as follows:

SECTION 1

DEFINITIONS

- 1.1 “Account” means the bookkeeping account established for each Participant who is entitled to a benefit under the Plan. An Account is established only for purposes of determining the amount of benefits hereunder and not to segregate assets or to identify assets that may or must be used to satisfy benefits. An Account will be credited with Deferral Amounts set forth in Section 3 of the Plan, Special Initiative Payments that are deferred as set forth in Appendix A of the Plan, and Earnings under Section 5 of the Plan. The Participant’s Account may be administratively segregated into one or more subaccounts to reflect benefits that are payable at different times and in different forms. As used herein, the term “Account” may refer to a subaccount as the context so requires.
- 1.2 “Active Employee” means an Employee who is actively employed by an Employer. By way of example, and not limitation, an Employee is not actively employed by an Employer if the Employee is absent from work due to a leave of absence, short-term or long-term disability, or displacement. Active Employee does not include (i) leased employees (which, in accordance with Internal Revenue Code Section 414(n), means any person, other than an employee of the recipient, who, pursuant to an agreement between the recipient and any other person, has performed services for the recipient, or for the recipient and related persons determined in accordance with Internal Revenue Code Section 414(n)(6), on a substantially full-time basis for a period of at least one year, and such services are performed under the primary direction or control of the recipient); (ii) interns; (iii) temporary employees or employees who are reclassified from another

classification to temporary employees; (iv) employees who are not paid through the Corporation's primary payroll system; and (v) employees with no U.S. source income. The decision as to whether an Employee is an Active Employee shall be made by the Plan Manager in his or her sole discretion.

- 1.3 "Administrative Committee" means The PNC Financial Services Group, Inc. Administrative Committee or such other committee that is appointed to administer the ISP.
- 1.4 "Affiliate" means any business entity whose relationship with the Corporation is as described in Subsection (b), (c) or (m) of Internal Revenue Code Section 414.
- 1.5 "Annualized Base Salary" means an Employee's Base Salary on an annualized basis as reflected on the Employer's payroll records. For purposes of determining an Employee's Base Salary in connection with this Section 1.5, the term "Participant" in Section 1.6 shall mean "Employee."
- 1.6 "Base Salary" means the salary or other non-variable pay received by a Participant for personal services actually rendered in the course of employment with an Employer during a Plan Year to the extent that the amounts are includible in gross income or would have been includible in gross income but for an election under Internal Revenue Code Section 125, 132(f)(4), 402(e)(3) or 402(h) or any deferral election into a qualified or nonqualified plan, including, without limitation, the ISP. Base Salary does not include: (i) amounts that are not processed through the Corporation's primary payroll system; (ii) Short-Term Incentive Pay or other cash or non-cash incentive compensation amounts or commissions; (iii) amounts received by the Participant from a third-party, including, without limitation, amounts received by the Participant pursuant to an insurance program, plan or policy; and (iv) severance pay or any other amounts received by the Participant after the Participant's Severance From Service but only to the extent that such amounts are not attributable to services rendered by the Participant prior to the Severance From Service.
- 1.7 "Beneficiary" or "Beneficiaries" means the individual or individuals designated by a Participant to receive the balance of the Participant's Account upon the Participant's death in accordance with Section 6 of the Plan.
- 1.8 "Board" means the Board of Directors of the Corporation.
- 1.9 "Change in Control" means a change of control of the Corporation of a nature that would be required to be reported in response to Item 6(e) of Schedule 14A of Regulation 14A (or in response to any similar item on any similar schedule or form) promulgated under the Exchange Act, whether or not the Corporation is then subject to such reporting requirement; provided, however, that, without limitation, a Change in Control will be deemed to have occurred if:
- (a) any Person, excluding employee benefits plans of the Corporation and its subsidiaries, is or becomes the beneficial owner (as defined in Rules 13d-3 and 13d-5 under the Exchange Act or any successor provisions thereto), directly or

indirectly, of securities of the Corporation representing 20% or more of the combined voting power of the Corporation's then-outstanding securities; provided, however, that such an acquisition of beneficial ownership representing between 20% and 40%, inclusive, of such voting power will not be considered a Change in Control if the Board approves such acquisition either prior to or immediately after its occurrence;

- (b) the Corporation consummates a merger, consolidation, share exchange, division or other reorganization or transaction of the Corporation (a "Fundamental Transaction") with any other corporation, other than a Fundamental Transaction that results in the voting securities of the Corporation outstanding immediately prior thereto continuing to represent (either by remaining outstanding or by being converted into voting securities of the surviving entity) at least 60% of the combined voting power immediately after such Fundamental Transaction of (i) the Corporation's outstanding securities, (ii) the surviving entity's outstanding securities, or (iii) in the case of a division, the outstanding securities of each entity resulting from the division;
- (c) the shareholders of the Corporation approve a plan of complete liquidation or winding-up of the Corporation or an agreement for the sale or disposition (in one transaction or a series of transactions) of all or substantially all of the Corporation's assets;
- (d) as a result of a proxy contest, individuals who, prior to the conclusion thereof, constituted the Board (including, for this purpose, any new director whose election or nomination for election by the Corporation's shareholders in connection with such proxy contest was approved by a vote of at least two-thirds of the directors then still in office who were directors prior to such proxy contest) cease to constitute at least a majority of the Board (excluding any Board seat that is vacant or otherwise unoccupied);
- (e) during any period of 24 consecutive months, individuals who, at the beginning of such period, constituted the Board (including, for this purpose, any new director whose election or nomination for election by the Corporation's shareholders was approved by a vote of at least two-thirds of the directors then still in office who were directors at the beginning of such period) cease, for any reason, to constitute at least a majority of the Board (excluding any Board seat that is vacant or otherwise unoccupied); or
- (f) the Board determines that a Change in Control has occurred.

Notwithstanding anything to the contrary herein, a divestiture or spin-off of a subsidiary or division of the Corporation will not by itself constitute a Change in Control.

1.10 "Committee" means the Personnel and Compensation Committee of the Board.

1.11 "Compensation Threshold" for a Plan Year means the amount of compensation designated by the Internal Revenue Service under Internal Revenue Code Section 416(i)(1)(A)(i) for the calendar year that includes the Eligibility Determination Date.

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- 1.12 “Corporate Executive Group” means the group designated as such by the Corporation (or any successor group thereto).
- 1.13 “Corporation” means The PNC Financial Services Group, Inc. and any successors thereto.
- 1.14 “DCP” means The PNC Financial Services Group, Inc. and Affiliates Deferred Compensation Plan, adopted as of November 21, 1996, as amended from time to time.
- 1.15 “Deferral Amount” means the amount credited to the Participant’s Account in accordance with the Participant’s Deferral Election and, except for purposes of Sections 1.16, 1.20, 1.47, 3 and 4, the Participant’s Special Incentive Deferral Election (as defined in Appendix A). The term “Deferral Amount” will not include Earnings.
- 1.16 “Deferral Election” means a Participant’s irrevocable election to defer a whole percentage of his or her Base Salary or Eligible Short-Term Incentive Pay earned during a Plan Year and otherwise payable to the Participant by timely delivery to the Plan Manager of a Deferral Election Form. Deferral Elections shall be calculated with respect to the gross cash Base Salary or Eligible Short-Term Incentive Pay payable to the Participant prior to any deductions or withholdings, but shall be reduced by the Administrative Committee or its delegate to the extent necessary so that Deferral Elections do not exceed 100% of the cash amounts payable to the Participant after deduction of all required income and employment taxes and any other deductions required by law. In the case of a Participant who has incurred a Severance From Service, the Participant’s Deferral Election and Deferral Election Form shall apply to his or her Base Salary or Eligible Short-Term Incentive Pay earned prior to the Severance From Service notwithstanding that the Participant had incurred a Severance From Service at the time the payment would otherwise be made absent the Deferral Election.
- 1.17 “Deferral Election Form” means a document, in a form or forms approved by the Plan Manager, including electronic, whereby the Participant elects to defer, in whole percentages, up to 20% of the Participant’s Base Salary and/or up to 75% of any Short-Term Incentive Pay earned during a Plan Year and otherwise payable to the Participant and designates a Distribution Event and form of payment for the portion of the Participant’s Account attributable to such Deferral Amount, including Earnings.
- 1.18 “Disability” means, except as may otherwise be required by Internal Revenue Code Section 409A, that a Participant either (i) is unable to engage in any substantial gainful activity by reason of any medically determinable physical or mental impairment that can be expected to result in death or can be expected to last for a continuous period of not less than 12 months; or (ii) by reason of any medically determinable physical or mental impairment that can be expected to result in death or can be expected to last for a continuous period of not less than 12 months, is receiving, and has received for at least three months, income-replacement benefits under any Corporation-sponsored disability

benefit plan. A Participant who has been determined to be eligible for Social Security disability benefits shall be presumed to have a Disability as defined herein. The definition of Disability contained in the Plan shall have no impact or effect on any determination regarding disability made under any other employee benefit plan of the Employer.

- 1.19 “Distribution Date” means the date for commencement of distributions of a Participant’s Account(s) determined in accordance with Section 4.1 of the Plan.
- 1.20 “Distribution Event” means the event selected by the Participant on his or her Deferral Election Form for the commencement of the distribution of the Participant’s Account attributable to a Deferral Amount (including Earnings). A Participant may select as a Distribution Event for a Deferral Account (i) Severance From Service or (ii) a Specified Date.
- 1.21 “Earnings” means any deemed investment gains or losses credited or debited to a Participant’s Account with respect to such Participant’s Deferral Amount.
- 1.22 “Eligibility Determination Date” means the October 1st immediately preceding the Plan Year with respect to which an Employee who is eligible to participate in the Plan pursuant to the criteria set forth in Section 2 of the Plan may submit a Deferral Election.
- 1.23 “Eligible Short-Term Incentive Pay” means (i) 100% of a Participant’s first \$25,000 of Short-Term Incentive Pay~~plus~~ (ii) 50% of the Participant’s next \$225,000 of Short-Term Incentive Pay; provided, however, that, for a Grandfathered Corporate Executive Group Participant, Eligible Short-Term Incentive Pay means such Participant’s annual Short-Term Incentive Pay not in excess of the greater of (i) \$25,000 or (ii) 50% of such Participant’s Short-Term Incentive Pay.
- 1.24 “Employee” means any person employed by an Employer.
- 1.25 “Employer” means the Corporation and any Affiliate that has one or more employees paid through PNC’s primary payroll system, except to the extent that any such Affiliate is designated by the Plan Manager as not an Employer for purposes of the Plan and listed on Schedule A hereto (an “Excluded Affiliate”). The Plan Manager may update Schedule A to reflect any designation, or removal of a designation, as an Excluded Affiliate pursuant to this Section 1.25 without amendment to the Plan.
- 1.26 “ERISA” means the Employee Retirement Income Security Act of 1974, as amended.
- 1.27 “Exchange Act” means the Securities Exchange Act of 1934, as amended, and the rules and regulations promulgated thereunder.
- 1.28 “Grandfathered Corporate Executive Group Participant” means a Participant who (i) was a member of the Corporate Executive Group on December 31, 2009 as reflected on the Corporation’s payroll records and (ii) continues to be a member of the Corporate Executive Group.

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- 1.29 “Installment Period” has the meaning assigned in Section 4.2(a).
- 1.30 “Internal Revenue Code” means the Internal Revenue Code of 1986, as amended. Any reference to a section of the Internal Revenue Code shall be deemed to include any regulation, ruling, or other guidance issued thereunder by the Department of the Treasury or the Internal Revenue Service.
- 1.31 “Investment Committee” means The PNC Financial Services Group, Inc. Investment Committee or such other committee that is appointed to oversee the ISP’s investments.
- 1.32 “ISP” means The PNC Financial Services Group, Inc. Incentive Savings Plan, as amended from time to time.
- 1.33 “KEEP” means The PNC Financial Services Group, Inc. Key Executive Equity Program, as amended from time to time.
- 1.34 “Participant” means, except as provided in Section 1.5 or 1.54, any (i) Employee who meets the eligibility criteria set forth in Section 2 of the Plan and/or has an Account under the Plan and (ii) any former Employee who has an Account under the Plan. Notwithstanding the foregoing, an Employee who does not have an Account under the Plan shall cease to be a Participant if the Employee does not make a Deferral Election, or elects or is deemed to elect to defer no Base Salary and Eligible Short-Term Incentive Pay, for the Plan Year the Employee is otherwise entitled to make a Deferral Election.
- 1.35 “Pension Plan” means The PNC Financial Services Group, Inc. Pension Plan, as amended from time to time.
- 1.36 “Person” has the meaning given in Section 3(a)(9) of the Exchange Act and also includes any syndicate or group deemed to be a person under Section 13(d)(3) of the Exchange Act.
- 1.37 “Plan” means The PNC Financial Services Group, Inc. and Affiliates Deferred Compensation and Incentive Plan, which is the Plan set forth in this document, as amended from time to time.
- 1.38 “Plan Manager” means any individual designated by the Administrative Committee to manage the operation of the Plan as herein provided or to whom the Administrative Committee has duly delegated any of its duties and obligations hereunder.
- 1.39 “Plan Year” means the calendar year.
- 1.40 “Prior Plan” has the meaning assigned in Section 6.
- 1.41 “Retirement” means a Participant’s Severance From Service at any time and for any reason (other than death) on or after the Participant has attained age 55 and completed five years of Vesting Service.

- 1.42 “Semi-Annual Valuation Date” means the first business day of January or July, as the context so requires.
- 1.43 “Separation From Service” means separation from service within the meaning of Internal Revenue Code Section 409A. For purposes of this definition, a Participant shall be deemed to have a Separation From Service on the date on which the Participant and the Employer reasonably anticipate that no further services would be performed after such date or that the level of bona fide services the Participant would perform after such date would permanently decrease to no more than 20% of the average level of bona fide services performed over the immediately preceding 36-month period (or the full period of employment if less than 36 months). Notwithstanding the above, no Separation From Service shall be deemed to occur while the Participant is on military leave, sick leave or other bona fide leave of absence until the latest of: (i) six months after commencement of the leave, other than for a Disability; (ii) 29 months after commencement of the leave as the result of a Disability; or (iii) the date on which the Participant ceases to have a legally protected right to reemployment under an applicable statute or by contract.
- 1.44 “Severance From Service” means the Participant’s Separation From Service with the Corporation and all of its Affiliates.
- 1.45 “Short-Term Incentive Pay” means, with respect to a Plan Year, and only to the extent that such amounts are processed through the Corporation’s primary payroll system and designated by the Corporation as eligible for deferral hereunder, (i) any commissions earned by a Participant; (ii) any monthly, quarterly and annual incentive award or portion of an incentive award payable in cash and earned by the Participant during the Plan Year; (iii) any other cash bonus or incentive compensation payment that is payable in cash and earned by the Participant during the Plan Year; and (iv) any amounts identified in clauses (i), (ii) or (iii) that are paid after the Participant’s Severance From Service but only to the extent such amounts are earned prior to the Participant’s Severance From Service; provided, however, that Short-Term Incentive Pay shall not include any amounts that become subject to the Corporation’s general clawback policy or any other policy, program or practice concerning the recapture of an overpayment. A Participant’s Short-Term Incentive Pay is attributable to a Plan Year if it is earned during the Plan Year, notwithstanding that it may be paid during a later Plan Year. Short-Term Incentive Pay shall not include any amounts subject to mandatory deferral.
- 1.46 “SISP” means The PNC Financial Services Group, Inc. Supplemental Incentive Savings Plan, adopted as of January 1, 1989, as amended from time to time.
- 1.47 “Specified Date” means the Semi-Annual Valuation Date that is specified by a Participant for the commencement of the distribution of his or her Account attributable to a Deferral Amount (including Earnings); provided, however, that such date is at least one full calendar year after the last day of the Plan Year to which the Deferral Amount relates. A Participant shall not be permitted to have designated more than five Specified Dates at any one time for Deferral Amounts (including Earnings) under the Plan.

- 1.48 “Spouse” means the person to whom the Participant is legally married on the relevant date (as determined under the laws of the state in which the Participant is a resident at the time of marriage).
- 1.49 “Subsequent Deferral Election” has the meaning assigned in Section 3.4.
- 1.50 “Trust” means the grantor trust established by the Corporation to assist in funding its obligations under the Plan.
- 1.51 “Unforeseeable Emergency” means an unforeseeable emergency that is a severe financial hardship to a Participant resulting from: (i) an illness to or accident involving the Participant, the Spouse, the Participant’s beneficiary, or the Participant’s dependent (as defined in Internal Revenue Code Section 152, without regard to Internal Revenue Code Sections 152(b)(1), (b)(2), and (d)(1)(B)); (ii) loss of the Participant’s property due to casualty (including the need to rebuild a home following damage to a home not otherwise covered by insurance); or (iii) other similar extraordinary and unforeseeable circumstances arising as a result of events beyond the control of the Participant. Withdrawals of amounts because of such unforeseeable emergency will only be permitted to the extent reasonably necessary to satisfy the unforeseeable emergency plus amounts necessary to pay taxes reasonably anticipated as a result of the distribution, after taking into account the extent to which such unforeseeable emergency is or may be relieved:
- (a) through reimbursement or compensation by insurance or otherwise; or
 - (b) by liquidation of the Participant’s assets, to the extent the liquidation of such assets would not itself cause financial hardship.
- The Plan Manager will have the sole and absolute discretion to determine whether an Unforeseeable Emergency exists.
- 1.52 “Unforeseeable Emergency Withdrawal” has the meaning assigned in Section 4.3.
- 1.53 “Vesting Service” has the meaning assigned such term in the Pension Plan.
- 1.54 “Year-to-Date Short-Term Incentive Pay” means the Short-Term Incentive Pay paid or payable to an Employee between January 1 and the Eligibility Determination Date, plus, to the extent not already included, any Short-Term Incentive Pay that would have been received by the Employee during such period but for the Employee’s participation in a mandatory or elective deferral plan, including, without limitation, this Plan. For purposes of determining the Employee’s Short-Term Incentive Pay in connection with this Section 1.54, the term “Participant” in Section 1.45 shall mean “Employee.” An Employee’s Year-to-Date Short-Term Incentive Pay shall be determined by the Plan Manager in his or her sole discretion.

SECTION 2

ELIGIBILITY FOR PARTICIPATION

In general, an Employee may be eligible to participate in the Plan for a Plan Year if, as of the Eligibility Determination Date, (i) the Employee is an Active Employee and (ii) the sum of the Employee's Annualized Base Salary plus Year-to-Date Short-Term Incentive Pay exceeds the Compensation Threshold. The decision as to whether an Employee is eligible to participate in the Plan is reserved to the Plan Manager in his or her sole discretion. For the avoidance of doubt, a Participant who experiences a "deemed" Separation From Service as set forth in Section 1.43 shall not be eligible to participate in the Plan for a Plan Year unless and until the Plan Manager, in his or her sole discretion, makes a determination that such Participant again is eligible.

SECTION 3

BENEFITS

3.1 Deferral Amount.

Any Employee who is eligible to participate in the Plan pursuant to the criteria set forth in Section 2 of the Plan may elect to defer payment of Base Salary and/or Eligible Short-Term Incentive Pay during a Plan Year by making a Deferral Election with respect to such Base Salary and/or such Eligible Short-Term Incentive Pay by submitting a Deferral Election Form to, and in accordance with the procedures established by, the Plan Manager; provided, however, that any such Deferral Election with respect to Base Salary shall not be greater than 20% and any such Deferral Election with respect to Eligible Short-Term Incentive Pay shall not be greater than 75%. Only whole percentages of Base Salary and Eligible Short-Term Incentive Pay may be designated for deferral.

3.2 Deferral Election Form.

The Plan Manager may establish enrollment periods during which a Participant's Deferral Election Form must be received by the Plan Manager provided, however, that, except as otherwise provided in this Section 3.2, no Deferral Election Form may be accepted, and no deferral election may be made, after the December 31st immediately preceding the Plan Year for which the Deferral Election is to be effective. A Deferral Election Form will be effective only for one Plan Year and will apply to Base Salary and any Eligible Short-Term Incentive Pay earned by the Participant for that Plan Year (or any portion of that Plan Year) to which the Deferral Election relates, regardless of when such amounts are otherwise scheduled to be paid. Each Deferral Election Form also will permit the Participant to specify one or more Distribution Events, and, where applicable, whether the distribution will be made in a lump sum or installments, for the Deferral Amount (including Earnings). A Deferral Election Form may include an opportunity to designate a Beneficiary or Beneficiaries, to select a deemed investment in an investment fund or funds, and to make other elections or provide additional information as the Plan Manager shall determine, in his or her sole discretion.

A Deferral Election Form that is not timely filed with respect to a Plan Year shall have no effect with respect to such Plan Year and shall be considered void. Whether a Deferral Election Form is timely filed shall be determined by the Plan Manager, in his or her sole discretion, consistent with this Section 3.2 and the requirements of Internal Revenue Code Section 409A. In the event that a Participant's Deferral Election Form fails to designate for deferral a percentage of Base Salary, Eligible Short-Term Incentive Pay, or both, the Participant will be deemed to have elected not to defer any amount of Base Salary, Eligible Short-Term Incentive Pay, or both, as the case may be. In the event that a Participant's Deferral Election Form fails to designate a Distribution Event, or designates a Distribution Event that is not permitted under the terms of the Plan (including, without limitation, designating a Specified Date that is less than one full calendar year from the last day of the applicable Plan Year), the Participant shall be deemed to have selected the Participant's Severance From Service as the Distribution Event for the Deferral Amount (including Earnings) attributable to the Plan Year.

The Plan Manager shall make a good-faith effort to interpret any Deferral Election Form to the greatest extent possible consistent with the terms of the Plan and restrictions under applicable law.

3.3 Cancellation or Revocation of Deferral Elections

A Participant's Deferral Election for a Plan Year may be cancelled by the Administrative Committee or its delegate for the remainder of such Plan Year upon (i) the Participant's taking a hardship withdrawal under the ISP, the DCP or the SISF (as applicable); (ii) the Participant's Disability, provided that the suspension occurs by the later of the end of the Participant's taxable year and the 15th day of the third month following the date the Participant incurs the Disability; and (iii) the Participant's receipt of a distribution from the Plan on account of an Unforeseeable Emergency. Any such cancellation shall apply to any Base Salary and Eligible Short-Term Incentive Pay subject to such Deferral Election that would otherwise have been payable after the date of such suspension and before the end of such Plan Year. In addition, all of a Participant's existing Deferral Elections will be deemed to have been revoked upon (A) a termination of the Plan or the portion thereof covering the Participant, to the extent permitted under Internal Revenue Code Section 409A; or (B) the Participant's Severance From Service (except with respect to any Base Salary and/or Eligible Short-Term Incentive Pay earned before the Severance From Service).

3.4 Modification of Distribution Elections

A Participant who has not already commenced receiving a distribution of an Account attributable to a Distribution Event may, with respect to an Account to be distributed in connection with a Specified Date, subsequently change the previously designated Specified Date to another Specified Date or, with respect to an Account to be distributed in connection with a Severance From Service, subsequently change the form in which a

distribution is to be made in connection with the Severance From Service (a “Subsequent Deferral Election”); provided, however, that a Subsequent Deferral Election may be made only if the Subsequent Deferral Election (i) is made at least 12 months prior to the Distribution Event previously designated for such portion of his or her Account; (ii) is not effective until the 12-month anniversary of the date on which the Subsequent Deferral Election is made; and (iii) defers the Distribution Date for such portion of his or her Account by at least five years from the Distribution Date applicable under the prior Distribution Event; provided further that, for the avoidance of doubt, any such Subsequent Deferral Election shall become irrevocable as of the date that is 12 months prior to the previously designated Distribution Event with respect to which the Subsequent Deferral Election is made. In the case of a Subsequent Deferral Election with respect to an Account to be distributed in connection with a Severance From Service, the Distribution Date for the Account following the Subsequent Deferral Election shall be the Distribution Date determined in accordance with Section 4 of the Plan as if the Participant’s Severance From Service occurred on the anniversary of the Participant’s actual Severance From Service that is equal to the product of (A) five multiplied by (B) the number of Subsequent Deferral Elections that the Participant has made with respect to the Account to be distributed in connection with his or her Severance From Service. A Participant may make a Subsequent Deferral Election in accordance with the procedures established by the Plan Manager.

SECTION 4

DISTRIBUTION OF DEFERRAL AMOUNTS AND PARTICIPANT ACCOUNTS

4.1 Time of Distribution.

(a) Severance From Service.

- (1) If the Participant designates Severance From Service as the Distribution Event for a Deferral Amount, distribution of the Participant’s Account attributable to such Deferral Amount (including Earnings) shall commence within 30 days of the first Semi-Annual Valuation Date that is at least six months after the occurrence of the Participant’s Severance From Service.
- (2) In the event that a Participant’s Account is distributed following a Severance From Service in annual installments pursuant to Section 4.2(a) of the Plan, the first installment payment shall be made in accordance with subsection (1) above, and each subsequent annual installment payment shall be made within 30 days of the Semi-Annual Valuation Date that represents the anniversary of the Semi-Annual Valuation Date in connection with which the Participant’s distributions commenced, until the Participant’s Account is fully distributed.

(b) Specified Date.

If the Participant designates a Specified Date as the Distribution Event for a Deferral Amount, distribution of the Participant's Account attributable to such Deferral Amount (including Earnings) shall commence within 30 days of the Semi-Annual Valuation Date that the Participant designated as the Specified Date on his or her Deferral Election Form (or in accordance with a modification pursuant to Section 3.4); provided, however, that, if a Participant incurs a Severance From Service that is not due to Retirement or death, distribution of all of the Participant's Accounts, other than an Account to be distributed in connection with a Specified Date that occurred on or before the date of the Severance From Service, will commence within 30 days of the first Semi-Annual Valuation Date that is at least six months after the Participant's Severance From Service.

4.2 Form of Distribution.

Except as otherwise provided in this Section 4.2, distribution of a Participant's Account attributable to any Deferral Amount (including Earnings) shall commence in accordance with the Distribution Event designated by the Participant on his or her Deferral Election Form (or in accordance with a modification pursuant to Section 3.4), and such distribution shall be made, as follows:

(a) Severance From Service.

A distribution commencing in connection with a Severance From Service will be payable in accordance with the Participant's election on his or her Deferral Election Form (or in accordance with a modification pursuant to Section 3.4) to receive the distribution in either (i) a single lump sum or (ii) annual installments over a period designated by the Participant (the "Installment Period") of not less than two years and not more than 10 years. If the Participant elects to receive distributions in installments, the Participant shall also elect to receive either (A) substantially equal annual installments (subject to fluctuations in the value of the deemed investments) over the Installment Period or (B) a partial lump sum equal to a specified dollar amount or percentage of the Account designated for distribution with the remaining balance of such Account paid in substantially equal installments (subject to fluctuations in the value of the deemed investments) over the remainder of the Installment Period. The amount of each installment payment (other than the partial lump-sum payment described in clause (B)) shall be determined by dividing the balance of the Account as of the associated Semi-Annual Valuation Date by the number of installment payments remaining to be distributed. Notwithstanding the foregoing, in the event that a Participant incurs a Severance From Service that is not due to Retirement or death, or if the Participant fails to elect a form of payment for an Account that is to be distributed in connection with a Separation From Service, or makes an invalid election, distribution of the Participant's Account will be made in a single lump-sum payment.

(b) Specified Date.

A distribution commencing in connection with a Specified Date shall be paid in a single lump sum.

4.3 Unforeseeable Emergency Withdrawal.

A Participant may request a distribution of all or any portion of his or her Account in the event of an Unforeseeable Emergency (an Unforeseeable Emergency Withdrawal) in accordance with the procedures established by the Plan Manager. Upon approval of the Plan Manager, payment of an Unforeseeable Emergency Withdrawal will be made in a single lump sum cash payment as soon as administratively practicable, but, in any event, no later than ninety (90) days after such approval. The amount of the Unforeseeable Emergency Withdrawal will be deducted pro rata from all of the Participant's Accounts based upon the proportionate value each Account bears to the aggregate value of all of the Participant's Accounts, and pro rata from all of the deemed investments within an Account based upon the proportionate value each of the deemed investments bears to the aggregate value of all of the deemed investments within the Account, on the first business day of the month in which the Unforeseeable Emergency Withdrawal is approved. An Unforeseeable Emergency Withdrawal will have no effect on the timing of the distributions of any amounts remaining in such Participant's Account, and, except as otherwise determined by the Committee or its delegate pursuant to Section 3.3, will not have any effect on any current or future Deferral Election after the Unforeseeable Emergency Withdrawal.

4.4 Death Benefit.

If the Participant's Severance From Service occurs because of the Participant's death, either before or after payments commence, the balance of the Participant's Account will be distributed to the Participant's Beneficiary or Beneficiaries (determined in accordance with Section 6 hereto) in a single lump-sum payment within 90 days of the Participant's death. The amount, subject to the distribution of a Participant's Account under this Section 4.4, shall be based on the value of the Participant's Account as of the date of such Participant's death, if such date is a business day, or, if it is not, as of the first business day immediately preceding the date of death.

Notwithstanding the foregoing, if a Participant's date of death is on or after the Distribution Date associated with a scheduled distribution, whether attributable to a Specified Date or one of the installment payments in a series of installment payments following a Severance From Service, but before the payment associated with such Distribution Date is actually distributed, such distribution shall not be affected and shall continue to be distributed in accordance with the Participant's Deferral Election, with such distribution to be paid to the Participant's estate. For the avoidance of doubt, the remaining installment payments that are not paid to the Participant's estate pursuant to the immediately preceding sentence shall be distributed in accordance with the first paragraph of this Section 4.4.

4.5 Form and Valuation of Distribution.

All distributions will be payable in cash. Except as provided otherwise in Sections 4.3 and 4.4, the amount subject to the distribution of a Participant's Account shall be based on the value of the Participant's Account as of the Semi-Annual Valuation Date in connection with which the distribution is made.

SECTION 5

INVESTMENT FUNDS

Deferral Amounts credited to a Participant's Account under the Plan will be deemed to be invested in the investment fund or funds selected by the Participant in accordance with procedures established by the Plan Manager. The Participant may elect to change the investment fund elections in accordance with procedures established by the Plan Manager. The Investment Committee will, in its sole discretion, determine the various investment funds that will be available for the deemed investment of all Deferral Amounts. If the Participant fails to select an investment fund or funds with respect to any Deferral Amount, such Deferral Amount will be automatically invested in a default investment fund as may be designated from time to time by the Investment Committee, until the Participant provides investment directions in accordance with procedures established by the Plan Manager. The Participant's Account will be valued daily.

The Investment Committee or its delegate, in its sole and absolute discretion, will establish procedures for allocating any Earnings to the Participant's Account.

SECTION 6

DESIGNATION OF BENEFICIARIES

A Participant will designate a Beneficiary or Beneficiaries to receive the balance of the Participant's Account upon the Participant's death. Such designation will be on a form approved by the Plan Manager and will not be effective until the Plan Manager receives the form. If no valid Beneficiary designation form is on file with the Plan Manager upon the Participant's death, then the balance of the Participant's Account will be payable to the Beneficiary designated by the Participant under the Employer's group life insurance plan (which, in the case of a Participant who is also participating in the KEEP, shall mean the Beneficiary designated by the Participant under the KEEP), or, if no such designation exists, to the Participant's estate. For the sake of clarity, Beneficiary or Beneficiaries designations under any plan that is merged into the Plan (the "Prior Plan") will be honored until a Participant designates a new Beneficiary or Beneficiaries under the Plan or until the Participant revokes his or her prior Beneficiary or Beneficiaries designations under the Prior Plan.

SECTION 7

TRUST FUND

No assets of the Corporation or any Employer will be segregated or earmarked with respect to any Deferral Amounts and all such amounts will constitute unsecured contractual obligations of the Employer. If the Corporation chooses to contribute to the Trust to offset its obligation under this Plan, all assets or property held by the Trust will at all times remain subject to the claims of the general creditors of the Corporation or any Employer.

SECTION 8

CLAIMS PROCEDURE

8.1 Initial Claim.

Claims for benefits under the Plan will be filed with the Plan Manager. If any Participant or Beneficiary claims to be entitled to a benefit under the Plan and the Plan Manager determines that such claim should be denied, in whole or in part, the Plan Manager will notify such person of its decision in writing. Such notification will be written in a manner calculated to be understood by such person and will contain (i) specific reasons for the denial, (ii) specific reference to pertinent Plan provisions, (iii) a description of any additional material or information necessary for such person to perfect such claim and an explanation of why such material or information is necessary, and (iv) information as to the steps to be taken if the person wishes to submit a request for review. Such notification will be given within 90 days after the Plan Manager receives the claim. If such notification is not given within such period, the claim will be considered denied as of the last day of such period and such person may request a review of his or her claim.

8.2 Review Procedure.

Within 60 days after the date on which the Participant or Beneficiary receives a written notice of a denied claim (or, if applicable, within 60 days after the date on which such denial is considered to have occurred), such person (or his or her duly authorized representative) may (i) file a written request with the Administrative Committee for a review of his or her denied claim and of pertinent documents, and (ii) submit written issues and comments to the Administrative Committee. The Administrative Committee will notify such person of its decision in writing. Such notification will be written in a manner calculated to be understood by such person and will contain specific reasons for the decision as well as specific references to pertinent Plan provisions. The decision on review will be made within 60 days after the Administrative Committee receives the request for review. If the decision on review is not made within such period, the claim will be considered denied.

8.3 Claims and Review Procedure Not Mandatory After a Change in Control

After the occurrence of a Change in Control, the claims procedure and review procedure provided for in this Section 8 will be provided for the use and benefit of Participants who may choose to use such procedures, but compliance with the provisions of this Section 8 will not be mandatory for any Participant claiming benefits after a Change in Control. It will not be necessary for any Participant to exhaust these procedures and remedies after a Change in Control prior to bringing any legal claim or action, or asserting any other demand, for payments or other benefits to which such Participant claims entitlement.

8.4 Exhaustion of Claims Procedures

A claim or action (1) to recover benefits allegedly due under the Plan or by reason of any law; (2) to enforce rights under the Plan; (3) to clarify rights to future benefits under the Plan; or (4) that relates to the Plan and seeks a remedy, ruling or judgment of any kind against the Plan or a Plan Manager or a party in interest (collectively, a “Judicial Claim”) may not be commenced in any court or forum until after the claimant has exhausted the Plan’s claims and appeals procedures (an “Administrative Claim”). A claimant must raise all arguments and produce all evidence the claimant believes supports the claim or action in the Administrative Claim and shall be deemed to have waived every argument and the right to produce any evidence not submitted to the Committee as part of the Administrative Claim. Any Judicial Claim must be commenced in the appropriate court or forum no later than 24 months from the earliest of (A) the date the first benefit payment was made or allegedly due; (B) the date the Committee or its delegate first denied the claimant’s request; or (C) the first date the claimant knew or should have known the principal facts on which such claim or action is based; provided, however, that, if the claimant commences an Administrative Claim before the expiration of such 24-month period, the period for commencing a Judicial Claim shall expire on the later of the end of the 24-month period and the date that is three (3) months after the final denial of the claimant’s Administrative Claim, such that the claimant has exhausted the Plan’s claims and appeals procedures. Any claim or action that is commenced, filed or raised, whether a Judicial Claim or an Administrative Claim, after expiration of such 24-month limitations period (or, if applicable, expiration of the three (3) month limitations period following exhaustion of the Plan’s claims and appeals procedures) shall be time-barred. Filing or commencing a Judicial Claim before the claimant exhausts the Administrative Claim requirements shall not toll the 24-month limitations period (or, if applicable, the 3-month limitations period).

8.5 Venue

The courts of competent jurisdiction in Pittsburgh, Pennsylvania shall have exclusive jurisdiction for all claims, actions and other proceedings involving or relating to the Plan, a Plan Manager or a party in interest, including, by way of example and not of limitation, claim or action, (1) to recover benefits allegedly due under the Plan or by reason of any law; (2) to enforce rights under the Plan; (3) to clarify rights to future benefits under the Plan; or (4) that relates to the Plan and seeks a remedy, ruling or judgment of any kind against the Plan or a Plan Manager or a party in interest.

SECTION 9

ADMINISTRATION; DELEGATION

The Administrative Committee or its delegate, as the case may be, including, without limitation, the Plan Manager with respect to claims pursuant to Section 8.1, will have absolute authority to determine eligibility for benefits and administer, interpret, construe and vary the terms of the Plan; provided, however, that after a Change in Control, the Administrative Committee or its delegate will be subject to the direction of the trustee of the Trust with respect to the exercise of the authority granted by this Section 9 and elsewhere in this Plan.

This Plan is intended to be “a plan which is unfunded and is maintained by an employer primarily for the purpose of providing deferred compensation for a select group of management or highly compensated employees” within the meaning of Sections 201(2), 301(a)(3) and 401(a)(1) of ERISA and will be administered in a manner consistent with that intent.

The Board, the Committee, the Administrative Committee, the Investment Committee or their respective delegates may, in their sole discretion, delegate authority hereunder, including, but not limited to, delegating authority to modify, amend, administer, interpret, construe or vary the Plan, to the extent permitted by applicable law or administrative or regulatory rule.

All administrative costs and expenses of the Plan, to the extent permitted under applicable law, will be allocated among and deducted from Accounts of all Participants on a pro rata basis in accordance with procedures determined by the Plan Manager.

SECTION 10

AMENDMENT AND TERMINATION

The Committee will have the sole and absolute discretion to modify, amend or terminate this Plan, in whole or in part, at any time provided, however, that no modification, amendment or termination will be made that would have the effect of decreasing the amount payable to any Participant or Beneficiary hereunder without the consent of such Participant or Beneficiary. In the event of any termination of the Plan or any portion thereof, payment of affected Participants' Accounts shall be made under, and in accordance with, the terms of the Plan and the applicable elections, except that the Committee may determine, in its sole discretion, to accelerate payments to all such Participants if, and to the extent that, such acceleration is permitted under Internal Revenue Code Section 409A.

After a Change in Control, the Plan may not be amended in any manner that adversely affects the administration of payment of a Participant's benefits hereunder (including, but not limited to, the timing and form or payment of benefits hereunder) without the consent of the Participant, nor may the provisions of this Section 10 or Section 11 be amended after a Change in Control with respect to a Participant without the written consent of the Participant; provided, however, that the failure of the Participant to consent to any such amendment will not impair the ability of the Committee to amend the Plan with respect to any other Participant who has consented to such amendment.

SECTION 11

SUCCESSORS

In addition to any obligations imposed by law upon any successor(s) to the Corporation and the Employers, the Corporation and the Employers will be obligated to require any successor(s) (whether direct or indirect, by purchase, merger, consolidation, operation of law, or otherwise) to all or substantially all of the business and/or assets of the Corporation and the Employers to expressly assume and agree to perform this Plan in the same manner and to the same extent that the Corporation and the Employers would be required to perform it if no such succession had taken place; in the event of such a succession, references to "Corporation" and "Employers" herein will thereafter be deemed to include such successor(s). Except as set forth in the preceding sentence with respect to the successor(s) to all or substantially all of the business and/or assets of the Corporation and the Employers, the Corporation's and the Employers' obligations under this Plan are not assignable or transferable except, in the discretion of the Corporation, to: (i) any corporation, partnership or limited liability company that acquires all or substantially all of the assets of an Employer; or (ii) any corporation, partnership or limited liability company into which an Employer may be merged or consolidated.

SECTION 12

GOVERNING LAW

The Plan will be governed according to the laws of the Commonwealth of Pennsylvania, without reference to its conflict-of-laws provisions, to the extent not preempted by federal law.

SECTION 13

MISCELLANEOUS

13.1 **Liability of Board, Committee and Plan Manager.**

Neither the Board, the Committee, the Administrative Committee, the Investment Committee, the Plan Manager nor their respective delegates will be liable to any person for any action taken or admitted in connection with the administration, interpretation, construction or variance of the Plan.

13.2 **No Contract of Employment.**

Nothing herein will be construed as an offer or commitment by the Corporation or any Affiliate to continue any Participant's employment with it for any period of time.

13.3 **Compensation Under Other Plans.**

Any amount deferred and/or payable under this Plan shall not be considered compensation for the purpose of computing benefits to which a Participant may be

entitled under any qualified pension plan (as that term is defined in Section 3(3) of ERISA) or other arrangement of the Corporation or an Affiliate for the benefit of Employees, except as specified in such plan or arrangement.

13.4 Withholding.

The Corporation or an Affiliate shall have the right to deduct from payment of any amount under the Plan any taxes required by law to be withheld from a Participant or Beneficiary with respect to such payment.

13.5 Spendthrift Clause.

The right of the Participants to any amounts deferred or invested in this Plan will not be transferable or assignable and will not be subject to alienation, encumbrance, garnishment, attachment, execution or levy of any kind, voluntary or involuntary, except when, where and if compelled by applicable law. For the sake of clarity, domestic relations orders purporting to assign benefits under the Plan do not apply to the Plan.

13.6 Severability.

Whenever possible, each provision of this Plan will be interpreted in such a manner as to be effective and valid under applicable law, but if any provision of the Plan is held to be prohibited by or invalid under applicable law, then (i) such provision will be deemed to be amended to, and to have contained from the outset such language as is necessary to, accomplish the objectives of the provision as originally written to the fullest extent permitted by law, and (ii) other provisions of this Plan will remain in full force and effect.

13.7 Construction.

No rule of strict construction shall be applied against the Corporation, any Affiliate, the Committee, the Board, the Plan Manager or any other person regarding the interpretation of any terms of this Plan or any rule or procedure established by the Committee, the Administrative Committee, the Investment Committee, the Plan Manager or their respective delegates.

Where the context allows, words in the masculine gender shall include the feminine and neuter genders, the plural shall include the singular and the singular shall include the plural.

The captions of sections and paragraphs of this Plan are for convenience only and shall not control or affect the meaning or construction of any of its provisions.

13.8 Corporation and Affiliate Liability.

Whenever, in the Administrative Committee's or the Plan Manager's opinion, any person entitled to receive any payment is under a legal disability, is a minor, or is incapacitated in any way so as to be unable to manage his or her financial affairs, the Corporation or an Affiliate, at its discretion, may make such payment for the benefit of such person to his or

her legal representative, custodian or guardian. When the Corporation or an Affiliate makes any payment pursuant to this subsection, it shall be considered as a complete discharge of its liability for the making of such payments under the Plan.

13.9 Entire Agreement.

This writing constitutes the final and complete embodiment of the understandings of the parties hereto and all prior understandings and communications of the parties, oral or written, concerning this Plan are hereby renounced, revoked and superseded.

13.10 Notices.

All notices to the Corporation hereunder shall be delivered to the attention of the Administrative Committee or to the Plan Manager acting on its behalf. Any notice or filing required or permitted to be given to the Administrative Committee or the Corporation under this Plan shall be sufficient if in writing and hand delivered, or sent by registered or certified mail, to the Administrative Committee or to the Plan Manager, at the principal office of the Corporation. Such notice shall be deemed given as of the date of delivery or, if delivery is made by mail, as of the date shown on the postmark or the receipt for registration or certification.

13.11 Compliance with Law.

The Plan is intended to comply with applicable law. Without limiting the foregoing, the Plan is intended to comply with the applicable requirements of Internal Revenue Code Section 409A, and will be administered in accordance with Internal Revenue Code Section 409A to the extent that Internal Revenue Code Section 409A applies to the Plan. Notwithstanding any provision in the Plan to the contrary, distributions from the Plan may only be made in a manner, and upon an event, permitted by Internal Revenue Code Section 409A. If any payment or benefit cannot be provided or made at the time specified herein without incurring penalties under Internal Revenue Code Section 409A, then such benefit or payment will be provided in full at the earliest time thereafter when such penalties will not be imposed. For purposes of Internal Revenue Code Section 409A, a series of installment payments under the Plan shall be treated as a single payment. In the event that the Plan provides for the payment of any amount within a specified period of time, the actual date of payment of such amount shall be determined by the Corporation in its sole discretion. To the extent that any provision of the Plan would cause a conflict with the applicable requirements of Internal Revenue Code Section 409A, or would cause the administration of the Plan to fail to satisfy the applicable requirements of Internal Revenue Code Section 409A, such provision shall be deemed null and void to the extent permitted by applicable law.

13.12 Compliance with the Uniformed Services Employment and Reemployment Rights Act of 1994

Notwithstanding any other provision of the Plan to the contrary, the Plan shall be administered consistent with the requirements under Chapter 43 of Title 38 of the United States Code.

* * * *

Executed and adopted by the Chief Human Resources Officer of The PNC Financial Services Group, Inc. this 1st day of December, 2016, pursuant to the authority delegated by the Corporation's Personnel and Compensation Committee.

/s/ Vicki C. Henn

Vicki C. Henn
Executive Vice President
Chief Human Resources Officer

SCHEDULE A

EXCLUDED AFFILIATES

APPENDIX A

PROVISIONS APPLICABLE TO SPECIAL INITIATIVE DEFERRAL ELECTIONS

The Corporation has created a special retirement window initiative (the “Special Initiative”) to provide certain eligible Employees with the opportunity to negotiate the terms of their retirement, including the receipt of a special payment to assist in paying for post-termination medical expenses or insurance (the “Special Initiative Payment”). This Appendix A governs the terms of the Plan as they apply to an election to defer receipt of a Special Initiative Payment and the subsequent distribution of a Participant’s Account attributable to a Special Initiative Deferral Election.

Unless otherwise stated in this Appendix A, the provisions set forth in this Appendix A shall apply in place of, or in addition to (as the context may require), the provisions set forth in the main body of the Plan document. By way of example and not of limitation, the provisions necessary to satisfy the requirements of applicable law, the provisions governing the deemed investment of amounts attributable to a Special Initiative Deferral Election, the provisions governing the distribution in the event of an Unforeseeable Emergency or a Participant’s death, the administrative provisions that relate to the administration of a Participant’s rights, and such other provisions as the Administrative Committee or its delegate, including, without limitation, the Plan Manager, may determine are necessary for the proper administration of the Plan and this Appendix A shall be subject to the Plan provisions set forth in the main body of the Plan document. Capitalized terms not otherwise defined in this Appendix A shall have the meanings assigned in the main body of the Plan document.

1. **Definitions.** For purposes of this Appendix A:

- (a) “Participant” means any Employee designated by the Corporation or its delegate, in its sole discretion, to participate in the Special Initiative, who meets the eligibility criteria set forth in Section 2 of the Plan, and/or has an Account attributable to a Special Initiative Deferral Election. Notwithstanding the foregoing, an Employee who is designated to participate in the Special Initiative shall cease to be a Participant if such Employee does not make a Special Initiative Deferral Election by the date required by Treasury Regulations Section 1.409A-2(a)(11). For the avoidance of doubt, an Employee’s eligibility to participate in the main body of the Plan document shall be unrelated to his or her eligibility to participate in this Appendix A.
- (b) “Special Initiative Deferral Election” means a Participant’s irrevocable election to defer a whole percentage of his or her Special Initiative Payment by timely delivery to the Plan Manager of a Special Initiative Deferral Election Form. Special Initiative Deferral Elections shall be calculated with respect to the gross Special Initiative Payment payable to the Participant prior to any deductions or withholdings, but shall be

reduced by the Administrative Committee or its delegate to the extent necessary so that Special Initiative Deferral Elections do not exceed 100% of the cash amounts payable to the Participant after deduction of all required income and employment taxes and any other deductions required by law. A Participant's Special Initiative Deferral Election shall have no effect on such Participant's Deferral Election, or absence of a Deferral Election, with respect to his or her Base Salary or Eligible Short-Term Incentive Pay.

- (c) "Special Initiative Deferral Election Form" means a document, in a form or forms approved by the Plan Manager, including electronic, whereby the Participant elects to defer, in whole percentages, up to 75% of a Special Initiative Payment.
- (d) "Special Initiative Specified Date" means the first Semi-Annual Valuation Date contemporaneous with or immediately following the date that is the second anniversary of the Participant's Severance From Service.
- (e) "Subsequent Deferral Election" has the meaning assigned in Paragraph 2(b) of this Appendix A.

2. Benefits.

(a) Special Initiative Deferral Election and Special Initiative Deferral Election Form

A Participant may make a Special Initiative Deferral Election and irrevocably elect to defer, in whole percentages, up to 75% of the payment of his or her Special Initiative Payment to the Participant's Special Initiative Specified Date by submitting a Special Initiative Deferral Election Form to, and in accordance with the procedures established by, the Plan Manager. No Special Initiative Deferral Election Form may be accepted, and no deferral election may be made, after the Employee has a legally binding right to the Special Initiative Payment as set forth in Treasury Regulations Section 1.409A-2(a)(11). A Special Initiative Deferral Election Form that is not timely filed shall have no effect with respect to the Participant's Special Initiative Payment and shall be considered void. Whether a Special Initiative Deferral Election Form is timely filed shall be determined by the Plan Manager, in his or her sole discretion, consistent with this Appendix A and the requirements of Internal Revenue Code Section 409A.

The Special Initiative Deferral Election Form may include the opportunity to designate a Beneficiary or Beneficiaries, select a deemed investment in an investment fund, and make other elections or provide additional information as the Plan Manager shall determine, in his or her sole discretion. For the avoidance of doubt, a Participant's Account

attributable to a Special Initiative Deferral Election (including Earnings) will be paid in a lump sum on the Participant's Special Initiative Specified Date (subject to any Subsequent Deferral Election in accordance with Paragraph 2(b) of this Appendix A), and the Special Initiative Deferral Election Form shall not permit the Participant to elect an alternative form of payment or a date for distribution.

(b) Subsequent Deferral Election.

With respect to a Participant's Account attributable to a Special Initiative Deferral Election, the Participant may make a one-time election to subsequently change the date of distribution of such amount to the fifth anniversary of his or her Special Initiative Specified Date (a "Subsequent Deferral Election"); provided, however, that such Subsequent Deferral Election may be made only if the Subsequent Deferral Election (i) is made at least 12 months prior to the Participant's Special Initiative Specified Date and (ii) is not effective until the 12-month anniversary of the date on which the Subsequent Deferral Election is made; provided further that, for the avoidance of doubt, any such Subsequent Deferral Election shall become irrevocable as of the date that is 12 months prior to the Participant's Special Initiative Specified Date. No Subsequent Deferral Election shall be permitted with respect to the form of distribution. A Participant may make a Subsequent Deferral Election in accordance with procedures established by the Plan Manager.

3. Time Form and Amount of Distribution.

Distribution of a Participant's Account attributable to his or her Special Initiative Deferral Election (and any Earnings thereon) shall be made in a single lump-sum cash distribution within 30 days of the Participant's Special Initiative Specified Date or, in the event the Participant has made a Subsequent Deferral Election, within 30 days of the fifth anniversary of the Participant's Special Initiative Specified Date.

The amount subject to the distribution under this Paragraph 3 shall be based on the value of the Participant's Account attributable to his or her Special Initiative Deferral Election (which, for the avoidance of doubt, includes any Earnings thereon) as of the Participant's Special Initiative Specified Date (or, in the event the Participant has made a Subsequent Deferral Election, as of the fifth anniversary of the Participant's Special Initiative Specified Date).

THE PNC FINANCIAL SERVICES GROUP, INC.
2016 INCENTIVE AWARD PLAN
DIRECTORS DEFERRED STOCK
UNIT PROGRAM
(Effective January 1, 2017)

The PNC Financial Services Group, Inc. Directors Deferred Stock Unit Program (the “**Program**”) is a sub-plan adopted by the Nominating and Governance Committee of the Board (the “**Committee**”) in accordance with Section 21.7 of the PNC Financial Services Group, Inc. 2016 Incentive Award Plan (the “**Plan**”).

In addition to the terms and conditions set forth herein, benefits provided under this Program are subject to, and governed by, the terms and conditions set forth in the Plan, which terms are hereby incorporated by reference. Unless the context otherwise requires, capitalized terms not otherwise defined herein shall have the meanings set forth in the Plan. In the event of any conflict between the provisions of this Program and the Plan, the Committee shall have full authority and discretion to resolve such conflict and any such determination shall be final and binding on the Director and all interested parties.

1. Definitions

In this Program, the following definitions apply, except as otherwise provided in an award agreement:

1.1 Account means the bookkeeping account established for each Director who is entitled to a benefit under this Program.

1.2 Beneficiary Designation Form means any form, document or online process provided by, or designated by, the Corporation or Department that a Director completes and submits in order to make or amend his or her beneficiary designation pursuant to this Program.

1.3 Change of Control means:

(a) any individual, entity or group (within the meaning of Section 13(d)(3) or 14(d)(2) of the Exchange Act) (a “**Person**”) becomes the beneficial owner (within the meaning of Rule 13d-3 promulgated under the Exchange Act) of 20% or more of either (i) the then-outstanding shares of common stock of the Corporation (the “**Outstanding PNC Common Stock**”) or (ii) the combined voting power of the then-outstanding voting securities of the Corporation entitled to vote generally in the election of directors (the “**Outstanding PNC Voting Securities**”); provided, however, that the following acquisitions shall not constitute a Change of Control: (1) any acquisition directly from the Corporation, (2) any acquisition by the Corporation, (3) any acquisition by any employee benefit plan (or related trust) sponsored or maintained by the Corporation or any company controlled by, controlling or under common control with the Corporation, (4) any acquisition pursuant to an Excluded Combination (as defined in Section 1.3(e)) or (5) an acquisition of beneficial ownership representing between 20% and 40%, inclusive, of the Outstanding PNC Voting Securities or Outstanding PNC Common Stock shall not be considered a Change of Control if the Incumbent Board (as defined in Section 1.3(b)) as of immediately prior to any such acquisition approves such acquisition either prior to or immediately after its occurrence;

(b) Individuals who, as of the date hereof, constitute the Board (the “**Incumbent Board**”) cease for any reason to constitute at least a majority of the Board (excluding any Board seat that is vacant or otherwise unoccupied); *provided, however*, that any individual becoming a director subsequent to the date hereof whose election, or nomination for election by Corporation’s shareholders, was approved by a vote of at least two-thirds of the directors then comprising the Incumbent Board shall be considered as though such individual was a member of the Incumbent Board, but excluding, for this purpose, any such individual whose initial assumption of office occurs as a result of an actual or threatened election contest with respect to the election or removal of directors or other actual or threatened solicitation of proxies or consents by or on behalf of a Person other than the Board;

(c) Consummation of a reorganization, merger, statutory share exchange or consolidation or similar transaction involving the Corporation or any of its subsidiaries, a sale or other disposition of all or substantially all of the assets of the Corporation, or the acquisition of assets or stock of another entity by the Corporation or any of its subsidiaries (each, a “**Business Combination**”), excluding, however, a Business Combination following which all or substantially all of the individuals and entities that were the beneficial owners of the Outstanding PNC Common Stock and the Outstanding PNC Voting Securities immediately prior to such Business Combination beneficially own, directly or indirectly, more than 60% of the then-outstanding shares of common stock (or, for a non-corporate entity, equivalent securities) and the combined voting power of the then-outstanding voting securities entitled to vote generally in the election of directors (or, for a non-corporate entity, equivalent governing body), as the case may be, of the entity resulting from such Business Combination (including, without limitation, an entity that, as a result of such transaction, owns the Corporation or all or substantially all of the Corporation’s assets either directly or through one or more subsidiaries) in substantially the same proportions as their ownership immediately prior to such Business Combination of the Outstanding PNC Common Stock and the Outstanding PNC Voting Securities, as the case may be (such a Business Combination, an “**Excluded Combination**”); or

(d) approval by the shareholders of the Corporation of a complete liquidation or dissolution of the Corporation.

1.4 Deferred Stock Unit means a phantom unit representing the right to receive in the future (a) a Share (“**Share-settled Deferred Stock Unit**”) or (b) cash equal to the Fair Market Value of one Share on the payment determination date (“**Cash-settled Deferred Stock Unit**”), as determined by the Committee at the time of grant, in accordance with the terms of the Plan and Program. Each Deferred Stock Unit is the economic equivalent of one Share.

1.5 Department means the Corporation’s Corporate Secretary’s Department.

1.6 Effective Date means January 1, 2017.

1.7 Retirement means the date of the Director's "separation from service," as such term is defined under Internal Revenue Code Section 409A and its corresponding treasury regulations and related guidance.

1.8 Unforeseeable Emergency means a severe financial hardship to a Director resulting from (a) an illness or accident of the Director, the Director's spouse, the Director's designated beneficiary, or the Director's dependent (as defined in Internal Revenue Code Section 152, without regard to Internal Revenue Code Sections 152(b)(1), (b)(2), and (d)(1)(B)), (b) loss of the Director's property due to casualty (including the need to rebuild a home following damage to a home not otherwise covered by insurance, for example, not as a result of a natural disaster), or (c) other similar extraordinary and unforeseeable circumstances arising as a result of events beyond the control of the Director, in each instance as determined by the Committee, in its sole discretion, in accordance with the requirements under Internal Revenue Code Section 409A and Section 1.409A-3(i)(3) of the treasury regulations.

2. Purpose; Eligibility

This Program is intended to provide a tax-deferred method of compensation to assist the Corporation in attracting, retaining, and motivating Directors of outstanding ability and to promote the identification of their interests with those of the shareholders of the Corporation.

Deferred Stock Units may be granted to each Director (including a Committee member) who is serving on the Effective Date of this Program, or is elected or appointed and duly qualified thereafter, provided that he or she is serving as a Director on the Grant Date.

3. Administration; Committee Determinations

This Program will be administered by the Committee, except as otherwise required by applicable rule or regulation, or by the Committee Chair in the exercise of such authority as the Committee may delegate to him or her from time to time.

In addition to any other powers granted to the Committee, it will have the following powers, subject to the express provisions of this Program:

(a) to determine, in its discretion, the Grant Date, the number or dollar value of Deferred Stock Units to be granted to each Director, the terms upon which Deferred Stock Units may be acquired or forfeited, and the terms and conditions of each grant of Deferred Stock Units, which terms and conditions need not be identical for each Director;

(b) to construe and interpret this Program;

(c) to make all other determinations and take all other actions necessary or advisable for the administration of this Program; and

(d) to delegate to officers or managers of the Corporation or any Subsidiary, including, without limitation, members of the Department, the authority to perform administrative functions under this Program.

Any determinations made or actions taken by the Committee pursuant to this Section 3 or pursuant to any other provision of this Program will be made or taken by the Committee in its sole discretion and will be final, binding and conclusive for all purposes on all parties, including, without limitation, Directors and their designated beneficiaries.

4. Establishment and Termination of Accounts

The Corporation will establish and maintain an Account in the name of each Director as of the date on which he or she is first granted an award of Deferred Stock Units. Deferred Stock Unit awards will be credited to the Director's Account on the Grant Date.

5. Grant of Deferred Stock Units; Dividend Adjustments

5.1 Annual Grants of Deferred Stock Units. The Committee may elect to authorize an annual grant of Deferred Stock Units to each eligible Director, as of a Grant Date specified by the Committee. In such case, the number of Deferred Stock Units credited to a Grantee's Account either will be (a) the number of Deferred Stock Units specified in the grant or (b) calculated by dividing the dollar amount specified by the Committee for the annual grant by the Fair Market Value of a Share on the Grant Date, rounded down to the nearest whole Deferred Stock Unit. The Corporation will credit grants authorized by the Committee pursuant to this Section 5.1, if any, to each eligible Grantee's Account as of each annual Grant Date until the Committee acts to supersede its standing grant authorization.

5.2 Special Grants of Deferred Stock Units. In addition to annual grants of Deferred Stock Units authorized pursuant to Section 5.1, if any, the Committee may authorize grants on a special or one-time basis to Directors as of such Grant Dates and for such purposes as the Committee may deem necessary or appropriate. The number of Deferred Stock Units credited to a Grantee's Account pursuant to such grants either will be the number of Deferred Stock Units specified in the grant or will be calculated in the same manner as specified in Section 5.1(b) for annual grants, as applicable.

5.3 Crediting of Accounts. All Deferred Stock Units granted pursuant to the Plan, together with any adjustments thereon, will be credited directly to the Grantee's Account, subject to the terms and conditions of this Program.

5.4 Dividend Adjustments. Deferred Stock Units credited to a Director's Account will be adjusted for dividends as set forth in this Section 5.4 until such time, if any, as the value of the Director's Account is fixed pursuant to this Program.

In the event that the Board declares a cash dividend on Common Stock, the Corporation will credit to each such Director's Account, on or as soon as practicable after each such dividend payment date, a number of Deferred Stock Units equal in value to the number of Shares that would have been purchased, rounded down to the nearest whole Share, determined using the average of the closing prices of Common Stock in New York Stock Exchange composite transactions for the two trading days immediately preceding the dividend payment date or such other methodology as is then in effect for dividend reinvestment under the Corporation's Dividend Reinvestment and Stock Purchase Plan, on the basis of the cash dividends that would be paid on a number of Shares equal to the aggregate number of Deferred Stock Units then in such Account.

6. Payment

6.1 Time and Manner of Payment - Retirement or Death.

(a) All outstanding Share-settled Deferred Stock Units credited to a Director's Account at the time of his or her Retirement shall be paid out in Shares and all outstanding Cash-settled Deferred Stock Units credited to a Director's Account at the time of his or her Retirement shall be paid in cash, each in a single lump sum, to the former Director as soon as administratively practicable, but no later than 30 days, after the date of his or her Retirement. If a Director dies prior to Retirement, then all outstanding Deferred Stock Units credited to such Director's Account at the time of his or her death will be paid out, in a single lump sum, to his or her designated beneficiary(ies) as soon as administratively practicable after the date of his or her death, but in no event later than the end of the calendar year following the year of death. Notwithstanding the foregoing, in the event that a designated beneficiary survives the Director but dies before receiving payment of all amounts in the Account due to that beneficiary, the beneficiary's estate will receive such unpaid amounts, in a single lump sum, as soon as practicable after the beneficiary's death. The estate of a beneficiary who has predeceased the Director will have no claim to payments under this Program.

(b) In the case of death, if cash settlement upon death has been elected by the Director by a prior election form delivered to the Corporation, any Share-settled Deferred Stock Units credited to a Director's Account at the time of his or her death shall be paid out in a single lump sum in cash.

(c) In the case of either Retirement or death and the Committee has awarded Share-settled Deferred Stock Units to a Director, any fractional Deferred Stock Units remaining in the Account shall be distributed in cash.

(d) Any cash payment made pursuant to this Section 6.1 shall be determined as provided in Sections 10.2, 10.3, and 10.4 hereof.

6.2 Time and Manner of Payment - Change of Control Notwithstanding anything in this Program to the contrary, upon the occurrence of a Change of Control, all outstanding Deferred Stock Units (including any fractions thereof) credited to Accounts under this Program shall be paid in cash, in a single lump sum, to the current or former Director or his or her designated beneficiary, as the case may be, as soon as administratively practicable, but no later than 30 days after the occurrence of the Change of Control. Any cash payment made pursuant to this Section 6.2 shall be determined as provided in Sections 10.2, 10.3, and 10.4 hereof, as applicable.

7. Beneficiary Designations

Each Director may designate, on a Beneficiary Designation Form provided by the Corporation, one or more beneficiaries to receive any unpaid amounts in his or her Account, in the event of his or her death. If the Director has not made a valid beneficiary designation, the

Director's Account at his or her death will be paid to the Director's surviving spouse, or if none, the Director's estate. A Director may amend his or her beneficiary designations at any time by submitting a new, properly completed Beneficiary Designation Form in accordance with the procedures established by the Department for such purpose. A Director's beneficiary designation, including an amendment to an existing beneficiary designation, shall be effective immediately upon receipt of such a properly completed Beneficiary Designation Form.

8. Capital Adjustments

Upon the occurrence of a Corporate Transaction, the Committee shall make adjustments, if any, to the number, class or kind of Deferred Stock Units then outstanding, or shall make such other adjustments, if any, to the amounts in the Accounts, in accordance with Section 15 of the Plan. The Committee shall determine the manner in which any fractional Deferred Stock Units will be treated.

All determinations hereunder shall be made by the Committee, in its sole discretion, and shall be final, binding and conclusive for all purposes on all parties, including without limitation the Grantee or his or her designated beneficiaries.

9. Account Statements

A statement will be sent or otherwise made available to each current or former Director with a balance in his or her Account. Such statement will list the aggregate number of Deferred Stock Units in the Account, including any adjustments made for dividends pursuant to Section 5.4 or other adjustments pursuant to Section 8, if applicable. The Corporation's officers may also provide such additional statements, if any, as they may deem appropriate from time to time.

10. Form of Account Payments

10.1 Unless otherwise provided in this Program under Sections 6.1(b), 6.1(c), 6.2, or 11, payment of Share-settled Deferred Stock Units hereunder will be made solely in the form of Shares that are authorized for issuance under the Plan.

10.2 In the event of the grant of Cash-settled Deferred Stock Units hereunder, the cash payment shall be determined as follows:

(a) upon Retirement, by multiplying the number of Cash-settled Deferred Stock Units in the Account by the higher of the following: (i) the Fair Market Value per Share on the date of Retirement and (ii) the average Fair Market Value of a Share for all trading days during the 12-month period immediately preceding the date of Retirement;

(b) upon death, by multiplying the number of Cash-settled Deferred Stock Units in the Account by the higher of the following: (i) the Fair Market Value per Share on the date of death and (ii) the average Fair Market Value of a Share for all trading days during the 12-month period immediately preceding the date of death;

(c) upon a Change of Control, by multiplying the number of Cash-settled Deferred Stock Units in the Account by the higher of the following: (i) the Fair Market Value per

Share on the business day immediately preceding the Change of Control and (ii) the average Fair Market Value of a Share for all trading days during the 12-month period immediately preceding the business day before the Change of Control; and

(d) in the event of an Unforeseeable Emergency, by multiplying the number of Cash-settled Deferred Stock Units approved for withdrawal by the Committee by the higher of (i) the Fair Market Value per Share on the date the Committee approves the withdrawal and (ii) the average Fair Market Value of a Share for all trading days during the 12-month period immediately preceding the date that the Committee approves the withdrawal.

10.3 In the event any Share-settled Deferred Stock Units will be settled for cash under the circumstances described in Sections 6.1(b), 6.2, or 11 hereof, the cash payment will be determined (a) upon death by multiplying the number of Share-settled Deferred Stock Units in the Account by the Fair Market Value per Share on the date of death, (b) upon a Change of Control by multiplying the number of Share-settled Deferred Stock Units in the Account by the Fair Market Value per Share on the business day immediately preceding the Change of Control, and (c) in the event of an Unforeseeable Emergency by multiplying the number of Share-settled Deferred Stock Units approved for withdrawal by the Committee by the Fair Market Value per Share on the date the Committee approves the withdrawal.

10.4 The cash payment of any fractional Deferred Stock Units will be determined by multiplying the number of fractional Deferred Stock Units in the Account by the higher of (i) the Fair Market Value per Share on the applicable date and (ii) the average Fair Market Value of a Share for all trading days during the 12-month period immediately preceding such date.

11. Unforeseeable Emergency Withdrawal.

In the event of an Unforeseeable Emergency, a Director may file a notice with the Department to be presented to the Committee, advising it of the circumstances of the Unforeseeable Emergency and requesting a withdrawal of such Director's Account or a portion of the Account.

Upon approval of the Committee, payment amounts to a Director on account of an Unforeseeable Emergency will be made, in a single lump sum payment, as soon as administratively practicable, but, in any event, no later than 30 days after such approval. In the event of an Unforeseeable Emergency, (a) the Director may elect to receive a distribution of Share-settled Deferred Stock Units in the Account in the form of cash, in a single lump sum and (b) any fractional Deferred Stock Units remaining in the Account, in the case of Share-settled Deferred Stock Units, shall be distributed in cash; provided that any cash payment, with respect to Share-settled Deferred Stock Units or Cash-settled Deferred Stock Units, made pursuant to this Section 11 shall be determined as provided in Sections 10.2, 10.3, and 10.4 hereof.

A withdrawal by a Director on account of an Unforeseeable Emergency will have no effect on any amounts remaining in such Director's Account, and will not have any effect on any current or future deferral after the withdrawal. Withdrawals of amounts because of such Unforeseeable Emergency will only be permitted to the extent reasonably necessary to satisfy the Unforeseeable Emergency plus amounts necessary to pay taxes reasonably anticipated as a result

of the distribution, after taking into account the extent to which such Unforeseeable Emergency is or may be relieved (a) through reimbursement or compensation by insurance or otherwise, or (b) by liquidation of the Director's assets, to the extent the liquidation of such assets would not itself cause a financial hardship.

12. Effective Date of this Program

This Program is effective as of January 1, 2017.

This Program will continue in effect until terminated by the Board or the Committee pursuant to Section 14.8. Notwithstanding anything in this Program to the contrary, no Deferred Stock Units may be granted under Section 5.1 or Section 5.2 after termination of this Program or after the occurrence of a Change of Control. The termination of this Program will not affect the validity of any Deferred Stock Unit, including any features thereof, credited to an Account on the date of termination.

13. Indemnification of Committee

In addition to such other rights of indemnification as they may have as directors or as members of the Committee, the members of the Committee will be indemnified by the Corporation against the reasonable expenses, including attorneys' fees, actually and reasonably incurred in connection with the defense of any action, suit or proceeding, or in connection with any appeal therein, to which they or any of them may be a party by reason of any action taken or failure to act under or in connection with this Program or any Deferred Stock Unit granted hereunder, and against all amounts reasonably paid by them in settlement thereof or paid by them in satisfaction of a judgment in any such action, suit or proceeding, if such members acted in good faith and in a manner that they believed to be in, and not opposed to, the best interests of the Corporation.

14. Miscellaneous Provisions

14.1 No Right or Obligation of Continued Service. Nothing contained herein will entitle a Director to continue to serve as a member of the Board or require a Director to continue to provide services as a member of the Board. The termination of a Director's service as a member of the Board will have no effect on his or her rights hereunder, except as otherwise provided herein.

14.2 No Shareholder Rights. The sole interest of a Director hereunder will be the right to receive the payments provided for herein as and when the same becomes due and payable. A Director will have no rights as a shareholder of the Corporation with respect to Deferred Stock Units credited to his or her Account prior to any distribution of Shares hereunder.

14.3 Nonalienability. Except for the withholding of any tax under applicable law, no Deferred Stock Units or other amounts credited to an Account or any amount payable at any time hereunder will be subject in any manner to alienation, sale, transfer, assignment, pledge, attachment or other legal process, or encumbrance of any kind (including as the result of any domestic relations order). Any attempt to alienate, sell, transfer, assign, pledge, attach or otherwise encumber any such Deferred Stock Units or amount, whether currently or hereafter

payable, will be void. Except as otherwise specifically provided by law, no Deferred Stock Units or amount payable hereunder will, in any manner, be liable for or subject to the debts or liabilities of a Director or his or her designated beneficiary.

14.4 Withholding. Payments made by the Corporation hereunder will be subject to any applicable tax-withholding requirements and to such other deductions as are required at the time of such payment under any income tax or other law, whether of the United States or any other jurisdiction.

14.5 Headings. Headings used herein are included solely for convenience of reference and shall not alter the meaning or interpretation of any of the provisions of this Program.

14.6 Successors. The Corporation shall require any successor (whether direct or indirect, by purchase, merger, consolidation or otherwise) to all or substantially all of the business and/or assets of the Corporation to expressly assume the Corporation's obligations hereunder in the same manner and to the same extent that the Corporation would be required to perform if no such succession had taken place. This Program will inure to the benefit of and be enforceable by each Director and each Director's personal or legal representatives, designated beneficiaries, executors, administrators, successors, heirs, distributees, devisees and legatees.

14.7 Status as Unsecured Creditor; Funding of Payments. All Account balances will constitute unsecured contractual obligations of the Corporation. In the sole discretion of the Corporation, the Corporation or any of its affiliates may establish or maintain a nonqualified grantor trust and make contributions thereto for the purpose of providing a source of assets to make payments hereunder as they become due and payable; provided, however, that no such trust will result in a Director or any designated beneficiary being required to include in gross income for federal income tax purposes any amounts payable hereunder prior to the date of actual payment. Notwithstanding the establishment or maintenance of any such trust, Directors' and their designated beneficiaries' rights hereunder will be solely those of a general unsecured creditor of the Corporation.

14.8 Termination and Amendment of this Program. This Program may be terminated or amended at any time by the Board upon the recommendation of the Committee, or by the Committee, without the consent of any current or former Director for whom an Account has been established, provided that any termination or amendment will be of general application to all Directors participating in this Program (and their designated beneficiaries) and will not, without the specific written consent of any such Director (or designated beneficiary) adversely affect, in a material manner: (a) any Deferred Stock Units or amounts theretofore credited to an Account; or (b) the right of a Director (or designated beneficiary) to receive all amounts due and payable with respect to an Account. Any amendment to this Program pursuant to this Section 14.8 will be effective as of the date such amendment is so approved or as of such later date as may be specified by the Board or the Committee when amending this Program.

14.9 Severability. Whenever possible, each provision of this Program will be interpreted in such a manner as to be effective and valid under applicable law, but if any provision of this Program is held to be prohibited by or invalid under applicable law, then (a) such provision will be deemed to be amended to, and to have contained from the outset such language as is necessary to, accomplish the objectives of the provision as originally written to the fullest extent permitted by law, and (b) other provisions of this Program will remain in full force and effect.

14.10 Limitations on Claims. Any claim or action by any Director or beneficiary to recover benefits allegedly due under this Program or by reason of any law or that relates to this Program and/or Plan and seeks a remedy, ruling or judgment of any kind against this Program and/or the Plan may not be commenced in any court or forum (a “**Judicial Claim**”) until after the Director or beneficiary has made a claim in writing to the Department that raises all arguments and produces all evidence that the Director or beneficiary believes supports the claim or action (an “**Administrative Claim**”). The Director shall be deemed to have waived every argument and the right to produce any evidence not submitted in the Administrative Claim. Any Judicial Claim must be commenced in a court of competent jurisdiction or appropriate forum, no later than 24 months after the earliest of the date that payment was first made, or allegedly due, under this Program or the first date the Director beneficiary knew or should have known the principal facts on which such claim or action is based; provided, however, that, if the Administrative Claim is commenced within the 24-month period, the period for commencing a Judicial Claim shall expire on the later of the date upon which the 24-month period ends and the date that is three months after a final notice of denial is sent by the Department. Any claim or action filed in a court or other forum after the end of the 24-month period (or, if applicable, after the end of the three-month period following conclusion of the Administrative Claim) will be time-barred.

14.11 Governing Law. This Program will be construed in accordance with and governed by the laws of the Commonwealth of Pennsylvania, without reference to its conflicts-of-laws provisions.

14.12 Compliance with Law. This Program is intended to comply with applicable law. Without limiting the foregoing, this Program is intended to comply with the applicable requirements of Internal Revenue Code Section 409A, and will be administered in accordance with Internal Revenue Code Section 409A and its corresponding treasury regulations and related guidance to the extent that Internal Revenue Code Section 409A applies to this Program. Notwithstanding anything in this Program to the contrary, distributions from the Plan may only be made in a manner, and upon an event, permitted by Internal Revenue Code Section 409A and its corresponding treasury regulations and related guidance. If any payment or benefit cannot be provided or made at the time specified herein without incurring penalties under Internal Revenue Code Section 409A, then such payment or benefit will be provided in full at the earliest time thereafter when such penalties will not be imposed. For purposes of Internal Revenue Code Section 409A, a series of installment payments shall be treated as a single payment. To the extent that any provision of this Program would cause a conflict with the applicable requirements of Internal Revenue Code Section 409A, or would cause the administration of this Program to fail to satisfy the applicable requirements of Internal Revenue Code Section 409A, such provision shall be deemed null and void to the extent permitted by applicable law.

The PNC Financial Services Group, Inc. and Subsidiaries
Computation of Ratio of Earnings to Fixed Charges (1)

<i>Dollars in millions</i>	Year Ended December 31				
	2016	2015	2014	2013	2012
Earnings					
Pretax income from continuing operations before adjustment for noncontrolling interests in consolidated subsidiaries or income or loss from equity investees	\$4,642	\$4,860	\$4,993	\$5,148	\$3,594
Add:					
Distributed income of equity investees	324	310	275	242	216
Fixed charges excluding interest on deposits	978	796	734	664	853
Less:					
Noncontrolling interests in pretax income of subsidiaries that have not incurred fixed charges	84	93	96	112	137
Interest capitalized		1	1		
Earnings excluding interest on deposits	5,860	5,872	5,905	5,942	4,526
Interest on deposits	430	403	325	344	386
Total earnings	<u>\$6,290</u>	<u>\$6,275</u>	<u>\$6,230</u>	<u>\$6,286</u>	<u>\$4,912</u>
Fixed charges					
Interest on borrowed funds	\$ 830	\$ 640	\$ 581	\$ 516	\$ 696
Interest component of rentals	147	153	152	148	145
Amortization of notes and debentures	1	2			12
Interest capitalized		1	1		
Fixed charges excluding interest on deposits	978	796	734	664	853
Interest on deposits	430	403	325	344	386
Total fixed charges	<u>\$1,408</u>	<u>\$1,199</u>	<u>\$1,059</u>	<u>\$1,008</u>	<u>\$1,239</u>
Ratio of earnings to fixed charges					
Excluding interest on deposits	5.99x	7.38x	8.04x	8.95x	5.31x
Including interest on deposits	4.47x	5.23x	5.88x	6.24x	3.96x

(1) As defined in Item 503(d) of Regulation S-K.

The PNC Financial Services Group, Inc. and Subsidiaries
Computation of Ratio of Earnings to Fixed Charges and Preferred Stock Dividends (1)

<i>Dollars in millions</i>	Year Ended December 31				
	2016	2015	2014	2013	2012
Earnings					
Pretax income from continuing operations before adjustment for noncontrolling interests in consolidated subsidiaries or income or loss from equity investees	\$4,642	\$4,860	\$4,993	\$5,148	\$3,594
Add:					
Distributed income of equity investees	324	310	275	242	216
Fixed charges and preferred stock dividends excluding interest on deposits	1,300	1,134	1,091	1,028	1,125
Less:					
Noncontrolling interests in pretax income of subsidiaries that have not incurred fixed charges	84	93	96	112	137
Interest capitalized		1	1		
Preferred stock dividend requirements	<u>322</u>	<u>338</u>	<u>357</u>	<u>364</u>	<u>272</u>
Earnings excluding interest on deposits	5,860	5,872	5,905	5,942	4,526
Interest on deposits	<u>430</u>	<u>403</u>	<u>325</u>	<u>344</u>	<u>386</u>
Total earnings	<u>\$6,290</u>	<u>\$6,275</u>	<u>\$6,230</u>	<u>\$6,286</u>	<u>\$4,912</u>
Fixed charges and preferred stock dividends					
Interest on borrowed funds	\$ 830	\$ 640	\$ 581	\$ 516	\$ 696
Interest component of rentals	147	153	152	148	145
Amortization of notes and debentures	1	2			12
Interest capitalized		1	1		
Preferred stock dividend requirements	<u>322</u>	<u>338</u>	<u>357</u>	<u>364</u>	<u>272</u>
Fixed charges and preferred stock dividends excluding interest on deposits	1,300	1,134	1,091	1,028	1,125
Interest on deposits	<u>430</u>	<u>403</u>	<u>325</u>	<u>344</u>	<u>386</u>
Total fixed charges and preferred stock dividends	<u>\$1,730</u>	<u>\$1,537</u>	<u>\$1,416</u>	<u>\$1,372</u>	<u>\$1,511</u>
Ratio of earnings to fixed charges and preferred stock dividends					
Excluding interest on deposits	4.51x	5.18x	5.41x	5.78x	4.02x
Including interest on deposits	3.64x	4.08x	4.40x	4.58x	3.25x

(1) As defined in Item 503(d) of Regulation S-K.

THE PNC FINANCIAL SERVICES GROUP, INC.
SCHEDULE OF CERTAIN SUBSIDIARIES
(As of December 31, 2016)

Name	State or Other Jurisdiction of Incorporation or Organization
PNC Bancorp, Inc. ⁽¹⁾	Delaware
PNC Bank, National Association ⁽¹⁾	United States
PNC REIT Corp.	Delaware
PNC Preferred Funding LLC	Delaware
PNC Equipment Finance, LLC	Delaware
PNC Merchant Services Company	Delaware
PNC NCNVINV, Inc.	Delaware
PNC Holding, LLC ⁽¹⁾	Delaware
PNC Investment Company LLC ⁽¹⁾	Delaware
PNC Capital Markets, LLC	Pennsylvania
PNC Capital Finance, LLC	Delaware

- (1) The names of the subsidiaries of the indicated entities are omitted because such subsidiaries, considered in the aggregate as a single subsidiary, would not constitute a significant subsidiary.

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in the Registration Statement on

- Form S-3 (No. 333-210994 No. 333-209782, and No. 333-130744)
- Form S-4 (No. 333-155248 and No. 333-149076)
- Form S-8 (No. 33-28828, No. 33-54960, No. 333-53806, No. 333-110758, No. 333-156540, No. 333-18069, No. 333-65040, No. 333-136808, No. 333-172931, No. 333-156886, No. 333-177896, No. 333-74666, No. 333-172930, No. 333-134169, No. 333-139345, No. 333-143182, No. 333-177898, No. 333-156527, No. 333-149076, No. 333-198461, and No. 333-210995)

of The PNC Financial Services Group, Inc. of our report dated February 28, 2017 relating to the financial statements and the effectiveness of internal control over financial reporting, which appears in this Form 10-K.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP

Pittsburgh, Pennsylvania

February 28, 2017

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference of our report dated February 28, 2017, relating to the consolidated financial statements of BlackRock, Inc. appearing in Exhibit 99.1 to this Annual Report on Form 10-K of The PNC Financial Services Group, Inc. (the "Corporation") for the year ended December 31, 2016, in the following Registration Statements of the Corporation:

- Forms S-8 relating to the Corporation's 1997 Long-Term Incentive Award Plan (formerly the Corporation's 1987 Senior Executive Long-Term Incentive Award Plan, as amended, the 1992 Long-Term Incentive Award Plan) (Nos. 33-28828, 33-54960, 333-53806, and 333-110758)
- Forms S-3 relating to the Corporation's Dividend Reinvestment and Stock Purchase Plan (No.333-210994)
- Forms S-8 relating to the Corporation's Employee Stock Purchase Plan (No.333-156540)
- Forms S-8 relating to the Corporation's Supplemental Incentive Savings Plan and the Corporation and Affiliates' Deferred Compensation Plan (Nos.333-18069, 333-65040, 333-136808, and 333-172931)
- Form S-8 relating to the Corporation's Supplemental Incentive Savings Plan and the Corporation and Affiliates' Deferred Compensation Plan (No.333-156886)
- Form S-8 relating to the Corporation's Deferred Compensation and Incentive Plan (Nos.333-177896 and 333-198461)
- Form S-8 relating to the Corporation's 1996 Executive Incentive Award Plan (Nos.333-74666 and 333-172930)
- Form S-3 relating to the shelf registration of securities of the Corporation that may be offered for sale from time to time by shareholders of the Corporation who acquired those shares in connection with the Corporation's acquisition of Harris Williams & Co. (No. 333-130744)
- Forms S-8 relating to the Corporation's 2006 Incentive Award Plan (Nos.333-134169, 333-139345, 333-143182 and 333-177898)
- Form S-4 relating to the Corporation's acquisition of National City Corporation (No.333-155248)
- Form S-8 relating to various National City plans (No.333-156527)
- Form S-4 relating to the Corporation's acquisition of Sterling Financial Corporation (No.333-149076)
- Form S-8 relating to the Sterling Financial Corporation 1996 Stock Incentive Plan (No.333-149076)
- Form S-8 relating to the Corporation's 2016 Incentive Award Plan (No.333-210995)
- Form S-3 relating to the shelf registration statement of debt securities, common stock, preferred stock, purchase contracts, units, warrants and depositary shares to be issued by the Corporation (No. 333-209782)

/s/ Deloitte and Touche LLP

New York, New York
February 28, 2017

POWER OF ATTORNEY

The PNC Financial Services Group, Inc.

KNOW ALL PERSONS BY THESE PRESENTS, that each of the undersigned Directors and/or Officers of The PNC Financial Services Group, Inc. (the "Corporation"), a Pennsylvania corporation, hereby names, constitutes and appoints Robert Q. Reilly, Gregory H. Kozich, Edward S. Rosenthal and Christi Davis, and each of them, as such person's true and lawful attorney-in-fact with power of substitution and resubstitution to sign in his or her name, place and stead, in any and all capacities, and to do any and all things and execute any and all instruments that such attorney may deem necessary or advisable under the Securities Exchange Act of 1934, as amended, and any rules, regulations and requirements of the Securities and Exchange Commission (the "Commission"), in connection with the filing with the Commission of an Annual Report on Form 10-K of the Corporation for the fiscal year ended December 31, 2016 (the "2016 Form10-K"); including specifically, but without limiting the generality of the foregoing, the power and authority to sign his or her name in his or her capacity as a member of the Board of Directors of the Corporation and/or as an Officer of the Corporation to the 2016 Form 10-K and such other form or forms as may be appropriate to be filed with the Commission as he or she may deem appropriate, together with all exhibits thereto, and to any and all amendments or supplements thereto and to any other documents filed with the Commission, as fully for all intents and purposes as he or she might or could do in person, and hereby ratifies and confirms all that said attorney-in-fact and agent, acting alone may lawfully do or cause to be done by virtue hereof.

This Power of Attorney will be governed by and construed in accordance with the laws of the Commonwealth of Pennsylvania. The execution of this Power of Attorney is not intended to, and does not, revoke any prior powers of attorney other than the revocation, in accordance with applicable laws, of any power of attorney previously granted specifically in connection with the filing of the 2016 Form 10-K (and any and all related documents, including any amendments or supplements to the 2016 Form10-K).

IN WITNESS WHEREOF, the following persons have duly signed this Power of Attorney in the capacities indicated as of this 16th day of February, 2017.

<u>Name/Signature</u>	<u>Capacity</u>
<u>/s/ William S. Demchak</u> William S. Demchak	Chairman, Chief Executive Officer and President (Principal Executive Officer) and Director
<u>/s/ Robert Q. Reilly</u> Robert Q. Reilly	Executive Vice President and Chief Financial Officer (Principal Financial Officer)
<u>/s/ Gregory H. Kozich</u> Gregory H. Kozich	Senior Vice President and Controller (Principal Accounting Officer)

<u>/s/ Charles E. Bunch</u> Charles E. Bunch	Director
<u>/s/ Marjorie Rodgers Cheshire</u> Marjorie Rodgers Cheshire	Director
<u>/s/ Andrew T. Feldstein</u> Andrew T. Feldstein	Director
<u>/s/ Daniel R. Hesse</u> Daniel R. Hesse	Director
<u>/s/ Kay Coles James</u> Kay Coles James	Director
<u>/s/ Richard B. Kelson</u> Richard B. Kelson	Director
<u>/s/ Jane G. Pepper</u> Jane G. Pepper	Director
<u>/s/ Donald J. Shepard</u> Donald J. Shepard	Director
<u>/s/ Lorene K. Steffes</u> Lorene K. Steffes	Director
<u>/s/ Dennis F. Strigl</u> Dennis F. Strigl	Director
<u>/s/ Michael J. Ward</u> Michael J. Ward	Director
<u>/s/ Gregory D. Wasson</u> Gregory D. Wasson	Director

In accordance with Exchange Act Rules 13a-14(f) and 15d-14(f), this certification does not relate to Interactive Data Files as defined in Rule 11 of Regulation S-T.

CERTIFICATION OF CHIEF EXECUTIVE OFFICER

I, William S. Demchak, certify that:

1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2016 of The PNC Financial Services Group, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2017

/s/ William S. Demchak

William S. Demchak
Chairman, President and Chief Executive Officer

In accordance with Exchange Act Rules 13a-14(f) and 15d-14(f), this certification does not relate to Interactive Data Files as defined in Rule 11 of Regulation S-T.

CERTIFICATION OF CHIEF FINANCIAL OFFICER

I, Robert Q. Reilly, certify that:

1. I have reviewed this Annual Report on Form 10-K for the year ended December 31, 2016 of The PNC Financial Services Group, Inc.;
2. Based on my knowledge, this report does not contain any untrue statement of a material fact or omit to state a material fact necessary to make the statements made, in light of the circumstances under which such statements were made, not misleading with respect to the period covered by this report;
3. Based on my knowledge, the financial statements, and other financial information included in this report, fairly present in all material respects the financial condition, results of operations and cash flows of the registrant as of, and for, the periods presented in this report;
4. The registrant's other certifying officer and I are responsible for establishing and maintaining disclosure controls and procedures (as defined in Exchange Act Rules 13a-15(e) and 15d-15(e)) and internal control over financial reporting (as defined in Exchange Act Rules 13a-15(f) and 15d-15(f)) for the registrant and have:
 - a) Designed such disclosure controls and procedures, or caused such disclosure controls and procedures to be designed under our supervision, to ensure that material information relating to the registrant, including its consolidated subsidiaries, is made known to us by others within those entities, particularly during the period in which this report is being prepared;
 - b) Designed such internal control over financial reporting, or caused such internal control over financial reporting to be designed under our supervision, to provide reasonable assurance regarding the reliability of financial reporting and the preparation of financial statements for external purposes in accordance with generally accepted accounting principles;
 - c) Evaluated the effectiveness of the registrant's disclosure controls and procedures and presented in this report our conclusions about the effectiveness of the disclosure controls and procedures, as of the end of the period covered by this report based on such evaluation; and
 - d) Disclosed in this report any change in the registrant's internal control over financial reporting that occurred during the registrant's most recent fiscal quarter (the registrant's fourth fiscal quarter in the case of an annual report) that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting; and
5. The registrant's other certifying officer and I have disclosed, based on our most recent evaluation of internal control over financial reporting, to the registrant's auditors and the audit committee of the registrant's board of directors (or persons performing the equivalent functions):
 - a) All significant deficiencies and material weaknesses in the design or operation of internal control over financial reporting which are reasonably likely to adversely affect the registrant's ability to record, process, summarize and report financial information; and
 - b) Any fraud, whether or not material, that involves management or other employees who have a significant role in the registrant's internal control over financial reporting.

Date: February 28, 2017

/s/ Robert Q. Reilly

Robert Q. Reilly

Executive Vice President and Chief Financial Officer

In accordance with Exchange Act Rules 13a-14(f) and 15d-14(f), this certification does not relate to Interactive Data Files as defined in Rule 11 of Regulation S-T.

**CERTIFICATION BY CHIEF EXECUTIVE OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K for the year ended December 31, 2016 of The PNC Financial Services Group, Inc. (Corporation) as filed with the Securities and Exchange Commission on the date hereof (Report), I, William S. Demchak, Chairman, President and Chief Executive Officer of the Corporation, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

- (1) The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Corporation for the dates and periods covered by the Report.

This certificate is being made for the exclusive purpose of compliance by the Chief Executive Officer of the Corporation with the requirements of Section 906 of the Sarbanes-Oxley Act of 2002, and may not be used by any person or for any reason other than as specifically required by law.

/s/ William S. Demchak

William S. Demchak
Chairman, President and Chief Executive Officer

February 28, 2017

In accordance with Exchange Act Rules 13a-14(f) and 15d-14(f), this certification does not relate to Interactive Data Files as defined in Rule 11 of Regulation S-T.

**CERTIFICATION BY CHIEF FINANCIAL OFFICER
PURSUANT TO 18 U.S.C. SECTION 1350,
AS ADOPTED PURSUANT TO
SECTION 906 OF THE SARBANES-OXLEY ACT OF 2002**

In connection with the Annual Report on Form 10-K for the year ended December 31, 2016 of The PNC Financial Services Group, Inc. (Corporation) as filed with the Securities and Exchange Commission on the date hereof (Report), I, Robert Q. Reilly, Executive Vice President and Chief Financial Officer of the Corporation, hereby certify, pursuant to 18 U.S.C. Section 1350, as adopted pursuant to Section 906 of the Sarbanes-Oxley Act of 2002, to the best of my knowledge, that:

- (1) The Report fully complies with the requirements of Section 13(a) of the Securities Exchange Act of 1934; and
- (2) The information contained in the Report fairly presents, in all material respects, the financial condition and results of operations of the Corporation for the dates and periods covered by the Report.

This certificate is being made for the exclusive purpose of compliance by the Chief Financial Officer of the Corporation with the requirements of Section 906 of the Sarbanes-Oxley Act of 2002, and may not be used by any person or for any reason other than as specifically required by law.

/s/ Robert Q. Reilly

Robert Q. Reilly
Executive Vice President and Chief Financial Officer

February 28, 2017

INDEX TO FINANCIAL STATEMENTS

Report of Independent Registered Public Accounting Firm	F-2
Consolidated Statements of Financial Condition	F-3
Consolidated Statements of Income	F-4
Consolidated Statements of Comprehensive Income	F-5
Consolidated Statements of Changes in Equity	F-6
Consolidated Statements of Cash Flows	F-8
Notes to the Consolidated Financial Statements	F-9

REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

To the Board of Directors and Stockholders of BlackRock, Inc.:

We have audited the accompanying consolidated statements of financial condition of BlackRock, Inc. and subsidiaries (the "Company") as of December 31, 2016 and 2015, and the related consolidated statements of income, comprehensive income, changes in equity, and cash flows for each of the three years in the period ended December 31, 2016. These financial statements are the responsibility of the Company's management. Our responsibility is to express an opinion on these financial statements based on our audits.

We conducted our audits in accordance with the standards of the Public Company Accounting Oversight Board (United States). Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the financial statements are free of material misstatement. An audit includes examining, on a test basis, evidence supporting the amounts and disclosures in the financial statements. An audit also includes assessing the accounting principles used and significant estimates made by management, as well as evaluating the overall financial statement presentation. We believe that our audits provide a reasonable basis for our opinion.

In our opinion, such consolidated financial statements present fairly, in all material respects, the financial position of BlackRock, Inc. and subsidiaries at December 31, 2016 and 2015, and the results of their operations and their cash flows for each of the three years in the period ended December 31, 2016, in conformity with accounting principles generally accepted in the United States of America.

We have also audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States), the Company's internal control over financial reporting as of December 31, 2016, based on criteria established in *Internal Control – Integrated Framework (2013)* issued by the Committee of Sponsoring Organizations of the Treadway Commission and our report dated February 28, 2017 expressed an unqualified opinion on the Company's internal control over financial reporting.

/s/ Deloitte & Touche LLP

New York, New York
February 28, 2017

BlackRock, Inc.

Consolidated Statements of Financial Condition

(in millions, except shares and per share data)

	December 31, 2016	December 31, 2015
Assets		
Cash and cash equivalents	\$ 6,091	\$ 6,083
Accounts receivable	2,350	2,237
Investments	1,595	1,578
Assets of consolidated variable interest entities:		
Cash and cash equivalents	84	148
Investments	1,008	1,030
Other assets	63	67
Separate account assets	149,089	150,851
Separate account collateral held under securities lending agreements	27,792	31,336
Property and equipment (net of accumulated depreciation of \$601 and \$570 at December 31, 2016 and 2015, respectively)	559	581
Intangible assets (net of accumulated amortization of \$832 and \$745 at December 31, 2016 and 2015, respectively)	17,363	17,372
Goodwill	13,118	13,123
Other assets	1,065	855
Total assets	\$ 220,177	\$ 225,261
Liabilities		
Accrued compensation and benefits	\$ 1,880	\$ 1,971
Accounts payable and accrued liabilities	1,094	1,068
Liabilities of consolidated variable interest entities	216	177
Borrowings	4,915	4,930
Separate account liabilities	149,089	150,851
Separate account collateral liabilities under securities lending agreements	27,792	31,336
Deferred income tax liabilities	4,840	4,851
Other liabilities	1,007	1,033
Total liabilities	190,833	196,217
Commitments and contingencies (Note 13)		
Temporary equity		
Redeemable noncontrolling interests	194	464
Permanent Equity		
BlackRock, Inc. stockholders' equity		
Common stock, \$ 0.01 par value;	2	2
Shares authorized: 500,000,000 at December 31, 2016 and 2015; Shares issued: 171,252,185 at December 31, 2016 and 2015; Shares outstanding: 161,534,443 and 163,461,064 at December 31, 2016 and 2015, respectively;		
Series B nonvoting participating preferred stock, \$0.01 par value;	—	—
Shares authorized: 150,000,000 at December 31, 2016 and 2015; Shares issued and outstanding: 823,188 at December 31, 2016 and 2015;		
Series C nonvoting participating preferred stock, \$0.01 par value;	—	—
Shares authorized: 6,000,000 at December 31, 2016 and 2015; Shares issued and outstanding: 763,660 at December 31, 2016 and 1,311,887 at December 31, 2015		
Additional paid-in capital	19,337	19,405
Retained earnings	13,660	12,033
Accumulated other comprehensive loss	(716)	(448)
Treasury stock, common, at cost (9,717,742 and 7,791,121 shares held at December 31, 2016 and 2015, respectively)	(3,185)	(2,489)
Total BlackRock, Inc. stockholders' equity	29,098	28,503
Nonredeemable noncontrolling interests	52	77
Total permanent equity	29,150	28,580
Total liabilities, temporary equity and permanent equity	\$ 220,177	\$ 225,261

See accompanying notes to consolidated financial statements.

BlackRock, Inc.

Consolidated Statements of Income

(in millions, except shares and per share data)

	2016	2015	2014
Revenue			
Investment advisory, administration fees and securities lending revenue:			
Related parties	\$ 6,836	\$ 6,875	\$ 6,738
Other third parties	3,044	2,965	2,851
Total investment advisory, administration fees and securities lending revenue	9,880	9,840	9,589
Investment advisory performance fees	295	621	550
BlackRock Solutions and advisory	714	646	635
Distribution fees	41	55	70
Other revenue	225	239	237
Total revenue	11,155	11,401	11,081
Expense			
Employee compensation and benefits	3,880	4,005	3,829
Distribution and servicing costs	429	409	364
Amortization of deferred sales commissions	34	48	56
Direct fund expense	766	767	748
General and administration	1,301	1,380	1,453
Restructuring charge	76	—	—
Amortization of intangible assets	99	128	157
Total expense	6,585	6,737	6,607
Operating income	4,570	4,664	4,474
Nonoperating income (expense)			
Net gain (loss) on investments	55	116	124
Interest and dividend income	40	26	29
Interest expense	(205)	(204)	(232)
Total nonoperating income (expense)	(110)	(62)	(79)
Income before income taxes	4,460	4,602	4,395
Income tax expense	1,290	1,250	1,131
Net income	3,170	3,352	3,264
Less:			
Net income (loss) attributable to noncontrolling interests	(2)	7	(30)
Net income attributable to BlackRock, Inc.	\$ 3,172	\$ 3,345	\$ 3,294
Earnings per share attributable to BlackRock, Inc. common stockholders:			
Basic	\$ 19.29	\$ 20.10	\$ 19.58
Diluted	\$ 19.04	\$ 19.79	\$ 19.25
Cash dividends declared and paid per share	\$ 9.16	\$ 8.72	\$ 7.72
Weighted-average common shares outstanding:			
Basic	164,425,858	166,390,009	168,225,154
Diluted	166,579,752	169,038,571	171,112,261

See accompanying notes to consolidated financial statements.

BlackRock, Inc.

Consolidated Statements of Comprehensive Income

<i>(in millions)</i>	2016	2015	2014
Net income	\$ 3,170	\$ 3,352	\$ 3,264
Other comprehensive income:			
Change in net unrealized gains (losses) from available-for-sale investments, net of tax:			
Unrealized holding gains (losses) (1)	—	(1)	3
Less: reclassification adjustment included in net income (1)	(1)	2	8
Net change from available-for-sale investments	1	(3)	(5)
Benefit plans	—	1	(2)
Foreign currency translation adjustments (2)	(269)	(173)	(231)
Other comprehensive income (loss)	(268)	(175)	(238)
Comprehensive income	2,902	3,177	3,026
Less: Comprehensive income (loss) attributable to noncontrolling interests	(2)	7	(30)
Comprehensive income attributable to BlackRock, Inc.	\$ 2,904	\$ 3,170	\$ 3,056

(1) The tax benefit (expense) was not material in 2016, 2015 and 2014.

(2) Amount for 2016 and 2015 includes gains from a net investment hedge of \$14 million (net of tax of \$8 million) and \$19 million (net of tax of \$11 million), respectively.

See accompanying notes to consolidated financial statements.

BlackRock, Inc.
Consolidated Statements of Changes in Equity

	Additional Paid-in Capital(1)	Retained Earnings	Appropriated Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Stock Common	Total BlackRock Stockholders' Equity	Nonredeemable Noncontrolling Interests	Total Permanent Equity	Redeemable Noncontrolling Interests / Temporary Equity
(in millions)									
December 31, 2013	\$ 19,475	\$ 8,208	\$ 22	\$ (35)	\$ (1,210)	\$ 26,460	\$ 156	\$ 26,616	\$ 54
Net income	—	3,294	—	—	—	3,294	(32)	3,262	2
Allocation of gains (losses) of consolidated collateralized loan obligations	—	—	(41)	—	—	(41)	41	—	—
Dividends paid	—	(1,338)	—	—	—	(1,338)	—	(1,338)	—
Stock-based compensation	453	—	—	—	—	453	—	453	—
Issuance of common shares related to employee stock transactions	(646)	—	—	—	660	14	—	14	—
Employee tax withholdings related to employee stock transactions	—	—	—	—	(344)	(344)	—	(344)	—
Shares repurchased	—	—	—	—	(1,000)	(1,000)	—	(1,000)	—
Net tax benefit (shortfall) from stock-based compensation	106	—	—	—	—	106	—	106	—
Subscriptions (redemptions/distributions) — noncontrolling interest holders	—	—	—	—	—	—	(46)	(46)	248
Net consolidations (deconsolidations) of sponsored investment funds	—	—	—	—	—	—	—	—	(269)
Other comprehensive income (loss)	—	—	—	(238)	—	(238)	—	(238)	—
December 31, 2014	\$ 19,388	\$ 10,164	\$ (19)	\$ (273)	\$ (1,894)	\$ 27,366	\$ 119	\$ 27,485	\$ 35
Net income	—	3,345	—	—	—	3,345	6	3,351	1
Net consolidation (deconsolidation) of VIEs due to adoption of new accounting pronouncement	—	—	19	—	—	19	(8)	11	194
Dividends paid	—	(1,476)	—	—	—	(1,476)	—	(1,476)	—
Stock-based compensation	514	—	—	—	—	514	—	514	—
Issuance of common shares related to employee stock transactions	(600)	—	—	—	736	136	—	136	—
Employee tax withholdings related to employee stock transactions	—	—	—	—	(231)	(231)	—	(231)	—
Shares repurchased	—	—	—	—	(1,100)	(1,100)	—	(1,100)	—
Net tax benefit (shortfall) from stock-based compensation	105	—	—	—	—	105	—	105	—
Subscriptions (redemptions/distributions) — noncontrolling interest holders	—	—	—	—	—	—	(34)	(34)	518
Net consolidations (deconsolidations) of sponsored investment funds	—	—	—	—	—	—	(6)	(6)	(284)
Other comprehensive income (loss)	—	—	—	(175)	—	(175)	—	(175)	—
December 31, 2015	\$ 19,407	\$ 12,033	\$ —	\$ (448)	\$ (2,489)	\$ 28,503	\$ 77	\$ 28,580	\$ 464

(1) Amounts include \$2 million of common stock at December 31, 2015, 2014 and 2013.

See accompanying notes to consolidated financial statements.

BlackRock, Inc.
Consolidated Statements of Changes in Equity

	Additional Paid-in Capital(1)	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Stock Common	Total BlackRock Stockholders' Equity	Nonredeemable Noncontrolling Interests	Total Permanent Equity	Redeemable Noncontrolling Interests / Temporary Equity
(in millions)								
December 31, 2015	\$ 19,407	\$ 12,033	\$ (448)	\$ (2,489)	\$ 28,503	\$ 77	\$ 28,580	\$ 464
Net income	—	3,172	—	—	3,172	(2)	3,170	—
Dividends paid	—	(1,545)	—	—	(1,545)	—	(1,545)	—
Stock-based compensation	521	—	—	—	521	—	521	—
PNC preferred stock capital contribution	172	—	—	—	172	—	172	—
Retirement of preferred stock	(172)	—	—	—	(172)	—	(172)	—
Issuance of common shares related to employee stock transactions	(667)	—	—	703	36	—	36	—
Employee tax withholdings related to employee stock transactions	—	—	—	(274)	(274)	—	(274)	—
Shares repurchased	—	—	—	(1,125)	(1,125)	—	(1,125)	—
Net tax benefit (shortfall) from stock-based compensation	78	—	—	—	78	—	78	—
Subscriptions (redemptions/distributions) — noncontrolling interest holders	—	—	—	—	—	(23)	(23)	1,169
Net consolidations (deconsolidations) of sponsored investment funds	—	—	—	—	—	—	—	(1,439)
Other comprehensive income (loss)	—	—	(268)	—	(268)	—	(268)	—
December 31, 2016	\$ 19,339	\$ 13,660	\$ (716)	\$ (3,185)	\$ 29,098	\$ 52	\$ 29,150	\$ 194

(1) Amounts include \$2 million of common stock at both December 31, 2016 and 2015.

See accompanying notes to consolidated financial statements.

BlackRock, Inc.

Consolidated Statements of Cash Flows

(in millions)

	2016	2015	2014
Cash flows from operating activities			
Net income	\$ 3,170	\$ 3,352	\$ 3,264
Adjustments to reconcile net income to cash flows from operating activities:			
Depreciation and amortization	229	247	278
Amortization of deferred sales commissions	34	48	56
Stock-based compensation	521	514	453
Deferred income tax expense (benefit)	(14)	(156)	(104)
Other gains	—	(40)	—
Net (gains) losses on nontrading investments	—	12	(37)
Purchases of investments within consolidated sponsored investment funds	—	(1)	(160)
Proceeds from sales and maturities of investments within consolidated sponsored investment funds	—	2	137
Assets and liabilities of consolidated VIEs:			
Change in cash and cash equivalents	(119)	(98)	168
Net (gains) losses within consolidated VIEs	(16)	(58)	41
Net (purchases) proceeds within consolidated VIEs	(816)	(227)	(599)
(Earnings) losses from equity method investees	(113)	(91)	(158)
Distributions of earnings from equity method investees	31	41	57
Other adjustments	—	1	5
Changes in operating assets and liabilities:			
Accounts receivable	(86)	(154)	78
Investments, trading	(449)	(584)	(416)
Other assets	(130)	(123)	5
Accrued compensation and benefits	(86)	98	101
Accounts payable and accrued liabilities	51	14	(69)
Other liabilities	(53)	207	(13)
Cash flows from operating activities	2,154	3,004	3,087
Cash flows from investing activities			
Purchases of investments	(377)	(330)	(369)
Proceeds from sales and maturities of investments	378	456	654
Distributions of capital from equity method investees	34	66	143
Net consolidations (deconsolidations) of sponsored investment funds	(74)	(163)	(123)
Acquisitions, net of cash acquired	(30)	(273)	—
Purchases of property and equipment	(119)	(221)	(66)
Cash flows from investing activities	(188)	(465)	239
Cash flows from financing activities			
Repayments of long-term borrowings	—	(750)	(1,000)
Proceeds from long-term borrowings	—	787	997
Cash dividends paid	(1,545)	(1,476)	(1,338)
Proceeds from stock options exercised	26	126	4
Repurchases of common stock	(1,399)	(1,331)	(1,344)
Net proceeds from (repayments of) borrowings by consolidated VIEs	—	—	512
Net (redemptions/distributions paid)/subscriptions received from noncontrolling interest holders	1,146	484	202
Excess tax benefit from stock-based compensation	82	105	106
Other financing activities	5	(9)	—
Cash flows from financing activities	(1,685)	(2,064)	(1,861)
Effect of exchange rate changes on cash and cash equivalents	(273)	(115)	(132)
Net increase (decrease) in cash and cash equivalents	8	360	1,333
Cash and cash equivalents, beginning of year	6,083	5,723	4,390
Cash and cash equivalents, end of year	\$ 6,091	\$ 6,083	\$ 5,723
Supplemental disclosure of cash flow information:			
Cash paid for:			
Interest	\$ 198	\$ 194	\$ 216
Interest on borrowings of consolidated VIEs	\$ —	\$ —	\$ 142
Income taxes (net of refunds)	\$ 1,365	\$ 1,276	\$ 1,227
Supplemental schedule of noncash investing and financing transactions:			
Issuance of common stock	\$ 667	\$ 600	\$ 646
PNC preferred stock capital contribution	\$ 172	\$ —	\$ —
Increase (decrease) in noncontrolling interests due to net consolidation (deconsolidation) of sponsored investment funds	\$ (1,439)	\$ (104)	\$ (269)
Increase (decrease) in borrowings due to consolidation/deconsolidation of VIEs	\$ —	\$ (3,389)	\$ 585

See accompanying notes to consolidated financial statements.

BlackRock, Inc.

Notes to the Consolidated Financial Statements

1. Introduction and Basis of Presentation

Business. BlackRock, Inc. (together, with its subsidiaries, unless the context otherwise indicates, “BlackRock” or the “Company”) is a leading publicly traded investment management firm providing a broad range of investment and risk management services to institutional and retail clients worldwide.

BlackRock’s diverse platform of active (alpha) and index (beta) investment strategies across asset classes enables the Company to tailor investment outcomes and asset allocation solutions for clients. Product offerings include single- and multi-asset portfolios investing in equities, fixed income, alternatives and money market instruments. Products are offered directly and through intermediaries in a variety of vehicles, including open-end and closed-end mutual funds, *iShares*® exchange-traded funds (“ETFs”), separate accounts, collective investment funds and other pooled investment vehicles. BlackRock also offers the *BlackRock Solutions*® (“BRS”) investment and risk management technology platform, *Aladdin*®, risk analytics, advisory and technology services and solutions to a broad base of institutional and wealth management investors.

At December 31, 2016, The PNC Financial Services Group, Inc. (“PNC”) held 21.3% of the Company’s voting common stock and 22.0% of the Company’s capital stock, which includes outstanding common and nonvoting preferred stock.

Basis of Presentation. These consolidated financial statements have been prepared in accordance with accounting principles generally accepted in the United States (“GAAP”) and include the accounts of the Company and its controlled subsidiaries. Noncontrolling interests on the consolidated statements of financial condition represents the portion of consolidated sponsored investment funds in which the Company does not have direct equity ownership. Accounts and transactions between consolidated entities have been eliminated.

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expense during the reporting periods. Actual results could differ from those estimates.

Certain items previously reported have been reclassified to conform to the current year presentation.

2. Significant Accounting Policies

Cash and Cash Equivalents. Cash and cash equivalents primarily consists of cash, money market funds and short-term, highly liquid investments with original maturities of three months or less in which the Company is exposed to market and credit risk. Cash and cash equivalent balances that are legally restricted from use by the Company are recorded in other assets on the consolidated statements of financial condition. Cash balances maintained by consolidated voting rights entities (“VREs”) are not considered legally restricted and are included in cash and cash equivalents on the consolidated statements of financial condition. Cash balances maintained by consolidated variable interest entities (“VIEs”) are included in assets of consolidated variable interest entities on the consolidated statements of financial condition.

Investments. *Investments in Debt and Marketable Equity Securities.* BlackRock classifies debt and marketable equity investments as trading, available-for-sale, or held-to-maturity based on the Company’s intent to sell the security or, for a debt security, the Company’s intent and ability to hold the debt security to maturity.

Trading securities are those investments that are purchased principally for the purpose of selling them in the near term. Trading securities are carried at fair value on the consolidated statements of financial condition with changes in fair value recorded in nonoperating income (expense) on the consolidated statements of income in the period of the change.

Held-to-maturity debt securities are purchased with the positive intent and ability to be held to maturity and are recorded at amortized cost on the consolidated statements of financial condition.

Available-for-sale securities are those securities that are not classified as trading or held-to-maturity. Available-for-sale securities are carried at fair value on the consolidated statements of financial condition with changes in fair value recorded in the accumulated other comprehensive income (loss) component of stockholders’ equity in the period of the change. Upon the disposition of an available-for-sale security, the Company reclassifies the gain or loss on the security from accumulated other comprehensive income (loss) to nonoperating income (expense) on the consolidated statements of income.

Equity Method. For equity investments where BlackRock does not control the investee, and where it is not the primary beneficiary (“PB”) of a VIE, but can exert significant influence over the financial and operating policies of the investee, the Company follows the equity method of accounting. BlackRock’s share of the investee’s underlying net income or loss is recorded as net gain (loss) on investments within nonoperating income (expense) and as other revenue for certain strategic investments since such companies are considered to be an extension of BlackRock’s core business. BlackRock’s share of net income of the investee is recorded based upon the most current information available at the time, which may precede the date of the consolidated statement of financial condition. Distributions received from the investment reduce the Company’s carrying value of the investee and the cost basis if deemed to be a return of capital.

Cost Method. For nonmarketable equity investments where BlackRock neither controls nor has significant influence over the investee, the investments are accounted for using the cost method of accounting. Dividends received from the investment are recorded as dividend income within nonoperating income (expense).

Impairments of Investments. Management periodically assesses equity method, available-for-sale, held-to-maturity and cost investments for other-than-temporary impairment (“OTTI”). If an OTTI exists, an impairment charge is recorded in nonoperating income (expense) on the consolidated statements of the income.

For equity method, held-to-maturity and cost method investments, if circumstances indicate that an OTTI may exist, the investments are evaluated using market values, where available, or the expected future cash flows of the investment. If the Company determines an OTTI exists, an impairment charge is recognized for the excess of the carrying amount of the investment over its estimated fair value.

For available-for-sale securities, when the fair value is lower than cost, the Company considers, among other factors, the length of time the security has been in a loss position, the extent to which the security’s fair value is less than cost, the financial condition and near-term prospects of the security’s issuer and the Company’s ability and intent to hold the security for a length of time sufficient to allow for recovery of such unrealized losses. For equity securities, if the impairment is considered other-than-temporary, an impairment charge is recognized for the excess of the carrying amount of the investment over its fair value. For debt securities, the Company considers whether: (1) it has the intent to sell the security; (2) it is more likely than not that it will be required to sell the security before recovery; or (3) it expects to recover the entire amortized cost basis of the security. If the Company intends to sell the security or it is more likely than not that it will be required to sell the security, the entire difference between the amortized cost and fair value must be recognized in earnings. If the Company does not intend to sell a security and it is not more likely than not that it will be required to sell the security but the security has suffered an impairment related to credit, the credit loss will be bifurcated from the total decline in value and recorded in earnings with the remaining portion recorded in accumulated other comprehensive income.

For the Company’s investments in collateralized loan obligations (“CLOs”), the Company reviews cash flow estimates over the life of each CLO investment. On a quarterly basis, if the present value of the estimated future cash flows is lower than the carrying value of the investment and there is an adverse change in estimated cash flows, an impairment is considered to be other-than-temporary. An impairment charge is recognized for the excess of the carrying amount of the investment over its estimated fair value.

Consolidation. As of January 1, 2015, the Company applies the consolidation guidance in accordance with ASU 2015-02, *Consolidation: Amendments to the Consolidation Analysis*, (“ASU 2015-02”). The Company performs an analysis for investment products to determine if the product is a VIE or a VRE. Assessing whether an entity is a VIE or a VRE involves judgment and analysis. Factors considered in this assessment include the entity’s legal organization, the entity’s capital structure and equity ownership, and any related party or de facto agent implications of the Company’s involvement with the entity. Investments that are determined to be VIEs are consolidated if the Company is the PB of the entity. VREs are typically consolidated if the Company holds the majority voting interest. Upon the occurrence of certain events (such as contributions and redemptions, either by the Company, or third parties, or amendments to the governing documents of the Company’s investment products), management reviews and reconsiders its previous conclusion regarding the status of an entity as a VIE or a VRE. Additionally, management continually reconsiders whether the Company is deemed to be a VIE’s PB that consolidates such entity.

Consolidation of Variable Interest Entities. Certain investment products for which a controlling financial interest is achieved through arrangements that do not involve or are not directly linked to voting interests are deemed VIEs. BlackRock reviews factors, including whether or not i) the entity has equity that is sufficient to permit the entity to finance its activities without additional subordinated support from other parties and ii) the equity holders at risk have the obligation to absorb losses, the right to receive residual returns, and the right to direct the activities of the entity that most significantly impact the entity’s economic performance, to determine if the investment product is a VIE. BlackRock re-evaluates such factors as facts and circumstances change.

All VIEs are evaluated for consolidation under a single method. The PB of a VIE is defined as the variable interest holder that has a controlling financial interest in the VIE. A controlling financial interest is defined as (i) the power to direct the activities of the VIE that most significantly impact its economic performance and (ii) the obligation to absorb losses of the entity or the right to receive benefits from the entity that potentially could be significant to the VIE. The Company generally consolidates VIEs in which it holds an equity ownership interest of 10% or greater and deconsolidates such VIEs once equity ownership falls below 10%.

Consolidation of Voting Rights Entities. BlackRock is required to consolidate an investee to the extent that BlackRock can exert control over the financial and operating policies of the investee, which generally exists if there is a greater than 50% voting equity interest.

Retention of Specialized Investment Company Accounting Principles. Upon consolidation of sponsored investment funds, the Company retains the specialized investment company accounting principles of the underlying funds. All of the underlying investments held by such consolidated sponsored investment funds are carried at fair value with corresponding changes in the investments’ fair values reflected in nonoperating income (expense) on the consolidated statements of income. When the Company no longer controls these funds due to reduced ownership percentage or other reasons, the funds are deconsolidated and accounted for as an equity method investment, available-for-sale security or trading investment if the Company still maintains an investment.

Money Market Fee Waivers. The Company is currently voluntarily waiving a portion of its management fees on certain money market funds to ensure that they maintain a targeted level of daily net investment income (the “Yield Support waivers”). During 2016 and 2015, these waivers resulted in a reduction of management fees of approximately \$56 million and \$137 million, respectively. Approximately 35% and 50% of Yield Support waivers for 2016 and 2015, respectively, were offset by a reduction of BlackRock’s distribution and servicing costs paid to a financial intermediary. BlackRock has provided Yield Support waivers in prior periods and may increase or decrease the level of fee waivers in future periods.

Separate Account Assets and Liabilities. Separate account assets are maintained by BlackRock Life Limited, a wholly owned subsidiary of the Company, which is a registered life insurance company in the United Kingdom, and represent segregated assets held for purposes of funding individual and group pension contracts. The life insurance company does not underwrite any insurance contracts that involve any insurance risk transfer from the insured to the life insurance company. The separate account assets primarily include equity securities, debt securities, money market funds and derivatives. The separate account assets are not subject to general claims of the creditors of BlackRock. These separate account assets and the related equal and offsetting liabilities are recorded as separate account assets and separate account liabilities on the consolidated statements of financial condition.

The net investment income attributable to separate account assets supporting individual and group pension contracts accrues directly to the contract owner and is not reported on the consolidated statements of income. While BlackRock has no economic interest in these separate account assets and liabilities, BlackRock earns policy administration and management fees associated with these products, which are included in investment advisory, administration fees and securities lending revenue on the consolidated statements of income.

Separate Account Collateral Assets Held and Liabilities Under Securities Lending Agreements. The Company facilitates securities lending arrangements whereby securities held by separate accounts maintained by BlackRock Life Limited are lent to third parties under global master securities lending agreements. In exchange, the Company receives legal title to the collateral with minimum values generally ranging from approximately 102% to 112% of the value of the securities lent in order to reduce counterparty risk. The required collateral value is calculated on a daily basis. The global master securities lending agreements provide the Company the right to request additional collateral or, in the event of borrower default, the right to liquidate collateral. The securities lending transactions entered into by the Company are accompanied by an agreement that entitles the Company to request the borrower to return the securities at any time; therefore, these transactions are not reported as sales.

The Company records on the consolidated statements of financial condition the cash and noncash collateral received under these BlackRock Life Limited securities lending arrangements as its own asset in addition to an equal and offsetting collateral liability for the obligation to return the collateral. The securities lending revenue earned from lending securities held by the separate accounts is included in investment advisory, administration fees and securities lending revenue on the consolidated statements of income. During 2016 and 2015, the Company had not resold or pledged any of the collateral received under these arrangements. At December 31, 2016 and 2015, the fair value of loaned securities held by separate accounts was approximately \$25.7 billion and \$28.8 billion, respectively, and the fair value of the collateral held under these securities lending agreements was approximately \$27.8 billion and \$31.3 billion, respectively.

Property and Equipment. Property and equipment are recorded at cost less accumulated depreciation. Depreciation is generally determined by cost less any estimated residual value using the straight-line method over the estimated useful lives of the various classes of property and equipment. Leasehold improvements are amortized using the straight-line method over the shorter of the estimated useful life or the remaining lease term.

BlackRock develops a variety of risk management, investment analytic and investment system services for internal use, utilizing proprietary software that is hosted and maintained by BlackRock. The Company capitalizes certain costs incurred in connection with developing or obtaining software for internal use. Capitalized software costs are included within property and equipment on the consolidated statements of financial condition and are amortized, beginning when the software project is ready for its intended use, over the estimated useful life of the software of approximately three years.

Goodwill and Intangible Assets. Goodwill represents the cost of a business acquisition in excess of the fair value of the net assets acquired. The Company has determined that it has one reporting unit for goodwill impairment testing purposes, the consolidated BlackRock single operating segment, which is consistent with internal management reporting and management's oversight of operations. In its assessment of goodwill for impairment, the Company considers such factors as the book value and market capitalization of the Company.

On a quarterly basis, the Company considers if triggering events have occurred that may indicate a potential goodwill impairment. If a triggering event has occurred, the Company performs assessments, which may include reviews of significant valuation assumptions, to determine if goodwill may be impaired. The Company performs an impairment assessment of its goodwill at least annually as of July 31st.

Intangible assets are comprised of indefinite-lived intangible assets and finite-lived intangible assets acquired in a business acquisition. The value of contracts to manage assets in proprietary open-end funds and collective trust funds and certain other commingled products without a specified termination date is generally classified as indefinite-lived intangible assets. The assignment of indefinite lives to such contracts primarily is based upon the following: (i) the assumption that there is no foreseeable limit on the contract period to manage these products; (ii) the Company expects to, and has the ability to, continue to operate these products indefinitely; (iii) the products have multiple investors and are not reliant on a single investor or small group of investors for their continued operation; (iv) current competitive factors and economic conditions do not indicate a finite life; and (v) there is a high likelihood of continued renewal based on historical experience. In addition, trade names/trademarks are considered indefinite-lived intangible assets when they are expected to generate cash flows indefinitely.

Indefinite-lived intangible assets and goodwill are not amortized. Finite-lived management contracts, which relate to acquired separate accounts and funds with a specified termination date, are amortized over their remaining useful lives.

The Company performs assessments to determine if any intangible assets are potentially impaired and whether the indefinite-lived and finite-lived classifications are still appropriate. The carrying value of finite-lived management contracts and their remaining useful lives are reviewed at least annually to determine if circumstances exist which may indicate a potential impairment or revisions to the amortization period. The Company performs impairment assessments of all of its intangible assets at least annually, as of July 31st.

In evaluating whether it is more likely than not that the fair value of indefinite-lived intangibles is less than its carrying value, BlackRock assesses various significant qualitative factors, including assets under management ("AUM"), revenue basis points, projected AUM growth rates, operating margins, tax rates and discount rates. In addition, the Company considers other factors, including (i) macroeconomic conditions such as a deterioration in general economic conditions, limitations on accessing capital, fluctuations in foreign exchange rates, or other developments in equity and credit markets; (ii) industry and market considerations such as a deterioration in the environment in which the entity operates, an increased competitive environment, a decline in market-dependent multiples or metrics, a change in the market for an entity's services, or regulatory, legal or political developments; and (iii) entity-specific events, such as a change in management or key personnel, overall financial performance and litigation that could affect significant inputs used to determine the fair value of the indefinite-lived intangible asset. If an indefinite-lived intangible is determined to be more likely than not impaired, then the fair value of the asset is compared with its carrying value and any excess of the carrying value over the fair value would be recognized as an expense in the period in which the impairment occurs.

For finite-lived intangible assets, if potential impairment circumstances are considered to exist, the Company will perform a recoverability test using an undiscounted cash flow analysis. Actual results could differ from these cash flow estimates, which could materially impact the impairment conclusion. If the carrying value of the asset is determined not to be recoverable based on the undiscounted cash flow test, the difference between the carrying value of the asset and its current fair value would be recognized as an expense in the period in which the impairment occurs.

Noncontrolling Interests. The Company reports noncontrolling interests as equity, separate from the parent's equity, on the consolidated statements of financial condition. In addition, the Company's consolidated net income on the consolidated statements of income includes the income (loss) attributable to noncontrolling interest holders of the Company's consolidated investment products. Income (loss) attributable to noncontrolling interests is not adjusted for income taxes for consolidated investment products that are treated as pass-through entities for tax purposes.

Classification and Measurement of Redeemable Securities. The Company includes redeemable noncontrolling interests related to certain consolidated investment products in temporary equity on the consolidated statements of financial condition.

Treasury Stock. The Company records common stock purchased for treasury at cost. At the date of subsequent reissuance, the treasury stock account is reduced by the cost of such stock using the average cost method.

Revenue Recognition

Investment Advisory, Administration Fees and Securities Lending Revenue. Investment advisory and administration fees are recognized as the services are performed. Such fees are primarily based on pre-determined percentages of the market value of AUM or committed capital. Investment advisory and administration fees are affected by changes in AUM, including market appreciation or depreciation, foreign exchange translation and net inflows or outflows. Investment advisory and administration fees for investment funds are shown net of fees waived pursuant to contractual expense limitations of the funds or voluntary waivers.

The Company contracts with third parties and related parties for various mutual fund distribution and shareholder servicing to be performed on behalf of certain funds the Company manages. Such arrangements generally are priced as a portion of the management fee paid by the fund. In certain cases, the fund (primarily international funds) takes on the primary responsibility for payment for services such that the Company bears no credit risk to the third-party. The Company records its management fees net of retrocessions. Retrocessions for 2016, 2015 and 2014 were \$804 million, \$870 million and \$891 million, respectively, and were reflected net in investment advisory, administration fees and securities lending revenue on the consolidated statements of income.

The Company also earns revenue by lending securities as an agent on behalf of clients, primarily to brokerage institutions. Revenue is accounted for on an accrual basis. The revenue earned is shared between the Company and the funds or other third-party accounts managed by the Company from which the securities are borrowed.

Investment Advisory Performance Fees / Carried Interest. The Company receives investment advisory performance fees or incentive allocations from certain actively managed investment funds and certain separately managed accounts. These performance fees are dependent upon exceeding specified relative or absolute investment return thresholds. Such fees are recorded upon completion of the measurement period, which varies by product or account, and could be monthly, quarterly, annually or longer.

In addition, the Company is allocated carried interest from certain alternative investment products upon exceeding performance thresholds. BlackRock may be required to reverse/return all, or part, of such carried interest allocations depending upon future performance of these funds. Therefore, BlackRock records carried interest subject to such clawback provisions in total investments or cash/cash of consolidated VIEs to the extent that it is distributed, on its consolidated statements of financial condition. Carried interest is recorded as performance fee revenue upon the earlier of the termination of the investment fund or when the likelihood of clawback is considered mathematically improbable.

The Company records a deferred carried interest liability to the extent it receives cash or capital allocations related to carried interest prior to meeting the revenue recognition criteria. At December 31, 2016 and 2015, the Company had \$152 million and \$143 million, respectively, of deferred carried interest recorded in other liabilities/other liabilities of consolidated VIEs on the consolidated statements of financial condition. A portion of the deferred carried interest liability will be paid to certain employees. The ultimate timing of the recognition of performance fee revenue, if any, for these products is unknown.

BlackRock Solutions and Advisory. BlackRock provides a variety of risk management, investment analytic, enterprise investment system, financial markets advisory and wealth management technology services to financial institutions, pension funds, asset managers, foundations, consultants, mutual fund sponsors, real estate investment trusts, government agencies and retail intermediaries. These services are provided under the brand name *BlackRock Solutions* and include a wide array of risk management services, valuation of illiquid securities, disposition and workout assignments (including long-term portfolio liquidation assignments), strategic planning and execution, and enterprise investment system outsourcing to clients. Fees earned for *BlackRock Solutions* and advisory services are recorded as services are performed and are determined using some, or all, of the following methods: (i) percentages of various attributes of advisory AUM or value of positions on the *Aladdin* platform, (ii) fixed-rate fees and (iii) fees billed on a time and materials basis. The fees earned for *BlackRock Solutions* and advisory services are recorded in *BlackRock Solutions* and advisory on the consolidated statements of income.

Other Revenue. The Company earns fees for transition management services comprised of commissions from acting as an introducing broker-dealer in buying and selling securities on behalf of the Company's customers. Commissions related to transition management services are recorded on a trade-date basis as securities transactions occur and are reflected in other revenue on the consolidated statements of income.

Other revenue also includes equity method investment earnings related to certain strategic investments.

Stock-based Compensation. Entities are required to measure the cost of employee services received in exchange for an award of equity instruments based on the grant-date fair value of the award. The compensation cost is recognized over the period during which an employee is required to provide service (usually the vesting period) in exchange for the stock-based award.

The Company measures the grant-date fair value of restricted stock units ("RSUs") using the Company's share price on the date of grant. For employee share options and instruments with market conditions, the Company uses pricing models. If an equity award is modified after the grant-date, incremental compensation cost is recognized for an amount equal to the excess of the fair value of the modified award over the fair value of the original award immediately before the modification. Awards under the Company's stock-based compensation plans vest over various periods. Compensation cost is recorded by the Company on a straight-line basis over the requisite service period for each separate vesting portion of the award as if the award is, in substance, multiple awards. Compensation cost was reduced by the number of awards expected to be forfeited prior to vesting. Forfeiture estimates generally were derived using historical forfeiture information, where available, and were reviewed for reasonableness at least quarterly.

The Company amortizes the grant-date fair value of stock-based compensation awards made to retirement-eligible employees over the requisite service period. Upon notification of retirement, the Company accelerates the unamortized portion of the award over the contractually required retirement notification period.

Distribution and Servicing Costs. Distribution and servicing costs include payments to third parties, primarily associated with distribution and servicing of client investments in certain BlackRock products. Distribution and servicing costs are expensed when incurred.

Amortization of Deferred Sales Commissions. The Company holds the rights to receive certain cash flows from sponsored mutual funds sold without a front-end sales charge ("back-end load shares"). The carrying value of these deferred mutual fund commissions is recorded within other assets on the consolidated statements of financial condition and is being amortized over periods between one and six years. The Company receives distribution fees from these funds and contingent deferred sales commissions ("CDSCs") upon shareholder redemption of certain back-end load shares that are recorded within distribution fees on the consolidated statements of income. Upon receipt of CDSCs, the Company records revenue and the remaining unamortized deferred sales commission is expensed.

Direct Fund Expense. Direct fund expense, which is expensed as incurred, primarily consist of third-party nonadvisory expense incurred by BlackRock related to certain funds for the use of certain index trademarks, reference data for certain indices, custodial services, fund administration, fund accounting, transfer agent services, shareholder reporting services, audit and tax services as well as other fund-related expense directly attributable to the nonadvisory operations of the fund.

Leases. The Company accounts for its office facilities leases as operating leases, which may include escalation clauses. The Company expenses the lease payments associated with operating leases evenly during the lease term (including rent-free periods) commencing when the Company obtains the right to control the use of the leased property.

Foreign Exchange. Foreign currency transactions are recorded at the exchange rates prevailing on the dates of the transactions. Monetary assets and liabilities that are denominated in foreign currencies are subsequently remeasured into the functional currencies of the Company's subsidiaries at the rates prevailing at each balance sheet date. Gains and losses arising on remeasurement are included in general and administration expense on the consolidated statements of income. Revenue and expenses are translated at average exchange rates during the period. Gains or losses resulting from translating foreign currency financial statements into U.S. dollars are included in accumulated other comprehensive income, a separate component of stockholders' equity, on the consolidated statements of financial condition.

Income Taxes. Deferred income tax assets and liabilities are recognized for the future tax consequences attributable to temporary differences between the financial statement carrying amounts of existing assets and liabilities and their respective tax bases using currently enacted tax rates in effect for the year in which the differences are expected to reverse. The effect of a change in tax rates on deferred income tax assets and liabilities is recognized on the consolidated statements of income in the period that includes the enactment date.

Management periodically assesses the recoverability of its deferred income tax assets based upon expected future earnings, taxable income in prior carryback years, future deductibility of the asset, changes in applicable tax laws and other factors. If management determines that it is not more likely than not that the deferred tax asset will be fully recoverable in the future, a valuation allowance will be established for the difference between the asset balance and the amount expected to be recoverable in the future. This allowance will result in additional income tax expense. Further, the Company records its income taxes receivable and payable based upon its estimated income tax position.

Excess tax benefits related to stock-based compensation were recognized as additional paid-in capital and are reflected as financing cash flows on the consolidated statements of cash flows.

Earnings per Share ("EPS"). Basic EPS is calculated by dividing net income applicable to common shareholders by the weighted-average number of shares outstanding during the period. Diluted EPS includes the determinants of basic EPS and common stock equivalents outstanding during the period. Diluted EPS is computed using the treasury stock method.

Due to the similarities in terms between BlackRock's nonvoting participating preferred stock and the Company's common stock, the Company considers its nonvoting participating preferred stock to be a common stock equivalent for purposes of EPS calculations. As such, the Company has included the outstanding nonvoting participating preferred stock in the calculation of average basic and diluted shares outstanding.

Business Segments. The Company's management directs BlackRock's operations as one business, the asset management business. The Company utilizes a consolidated approach to assess performance and allocate resources. As such, the Company operates in one business segment as defined in ASC 280-10, *Segment Reporting* ("ASC 280-10").

Fair Value Measurements.

Hierarchy of Fair Value Inputs. The Company uses a fair value hierarchy that prioritizes inputs to valuation approaches used to measure fair value. The fair value hierarchy gives the highest priority to quoted prices (unadjusted) in active markets for identical assets or liabilities and the lowest priority to unobservable inputs. Assets and liabilities measured and reported at fair value are classified and disclosed in one of the following categories:

Level 1 Inputs:

Quoted prices (unadjusted) in active markets for identical assets or liabilities at the reporting date.

- Level 1 assets may include listed mutual funds, ETFs, listed equities and certain exchange-traded derivatives.

Level 2 Inputs:

Quoted prices for similar assets or liabilities in active markets; quoted prices for identical or similar assets or liabilities that are not active; quotes from pricing services or brokers for which the Company can determine that orderly transactions took place at the quoted price or that the inputs used to arrive at the price are observable; and inputs other than quoted prices that are observable, such as models or other valuation methodologies.

- Level 2 assets may include debt securities, investments in CLOs, short-term floating-rate notes, asset-backed securities, securities held within consolidated hedge funds, restricted public securities valued at a discount, as well as over-the-counter derivatives, including interest and inflation rate swaps and foreign currency exchange contracts that have inputs to the valuations that generally can be corroborated by observable market data.

Level 3 Inputs:

Unobservable inputs for the valuation of the asset or liability, which may include nonbinding broker quotes. Level 3 assets include investments for which there is little, if any, market activity. These inputs require significant management judgment or estimation.

- Level 3 assets may include direct private equity investments held within consolidated funds and investments in CLOs.
- Level 3 liabilities include contingent liabilities related to acquisitions valued based upon discounted cash flow analyses using unobservable market data.

Significance of Inputs. The Company's assessment of the significance of a particular input to the fair value measurement in its entirety requires judgment and considers factors specific to the financial instrument.

Valuation Approaches. The fair values of certain Level 3 assets and liabilities were determined using various valuation approaches as appropriate, including third-party pricing vendors, broker quotes and market and income approaches. Such quotes and modeled prices are evaluated for reasonableness through various procedures, including due diligence reviews of third-party pricing vendors, variance analyses, consideration of the current market environment and other analytical procedures.

A significant number of inputs used to value equity, debt securities and investments in CLOs is sourced from third-party pricing vendors. Generally, prices obtained from pricing vendors are categorized as Level 1 inputs for identical securities traded in active markets and as Level 2 for other similar securities if the vendor uses observable inputs in determining the price. Annually, BlackRock's internal valuation committee or other designated groups review both the valuation approaches, including the general assumptions and methods used to value various asset classes, and operational processes with these vendors. On a quarterly basis, meetings are held with key vendors to identify any significant changes to the vendors' processes.

In addition, quotes obtained from brokers generally are nonbinding and categorized as Level 3 inputs. However, if the Company is able to determine that market participants have transacted for the asset in an orderly manner near the quoted price or if the Company can determine that the inputs used by the broker are observable, the quote is classified as a Level 2 input.

Investments Measured at Net Asset Values. As a practical expedient, the Company uses net asset value ("NAV") as the fair value for certain investments. The inputs to value these investments may include BlackRock capital accounts for its partnership interests in various alternative investments, including hedge funds, real assets and private equity funds, which may be adjusted by using the returns of certain market indices. The various partnerships generally are investment companies, which record their underlying investments at fair value based on fair value policies established by management of the underlying fund. Fair value policies at the underlying fund generally require the fund to utilize pricing/valuation information from third-party sources, including independent appraisals. However, in some instances, current valuation information for illiquid securities or securities in markets that are not active may not be available from any third-party source or fund management may conclude that the valuations that are available from third-party sources are not reliable. In these instances, fund management may perform model-based analytical valuations that could be used as an input to value these investments.

Derivative Instruments and Hedging Activities. The Company does not use derivative financial instruments for trading or speculative purposes. The Company uses derivative financial instruments primarily for purposes of hedging exposures to fluctuations in foreign currency exchange rates of certain assets and liabilities, and market exposures for certain seed investments. However, certain consolidated sponsored investment funds may also utilize derivatives as a part of their investment strategy.

Changes in the fair value of the Company's derivative financial instruments are recognized in earnings and, where applicable, are offset by the corresponding gain or loss on the related foreign-denominated assets or liabilities or hedged investments, on the consolidated statements of income.

The Company may also use financial instruments designated as net investment hedges for accounting purposes to hedge net investments in international subsidiaries whose functional currency is different from U.S. dollars. The gain or loss from revaluing accounting hedges of net

investments in foreign operations at the spot rate is deferred and reported within accumulated other comprehensive income on the consolidated statements of financial condition. The Company reassesses the effectiveness of its net investment hedge on a quarterly basis.

Recent Accounting Pronouncements Not Yet Adopted

Revenue from Contracts with Customers. In May 2014, the Financial Accounting Standards Board ("FASB") issued ASU 2014-09, *Revenue from Contracts with Customers* ("ASU 2014-09"). ASU 2014-09 outlines a single comprehensive model for entities to use in accounting for revenue arising from contracts with customers and supersedes most current revenue recognition guidance, including industry-specific guidance. The guidance also changes the accounting for certain contract costs and revises the criteria for determining if an entity is acting as a principal or agent in certain arrangements. The Company continues to evaluate the impact of ASU 2014-09 on the presentation and recognition of its revenue and certain contract costs. The most significant change currently identified to date relates to certain distribution costs currently presented net against revenues (contra-revenue) that may need to be presented as an expense on a gross basis. The Company will adopt ASU 2014-09 upon its effective date of January 1, 2018, together with all amending ASUs, and is currently evaluating which transition method it will apply.

Recognition and Measurement of Financial Instruments. In January 2016, the FASB issued ASU 2016-01, *Recognition and Measurement of Financial Assets and Financial Liabilities* ("ASU 2016-01"). ASU 2016-01 amends guidance on the classification and measurement of financial instruments, including significant revisions in accounting related to the classification and measurement of investments in equity securities and presentation of certain fair value changes for financial liabilities when the fair value option is elected. ASU 2016-01 also amends certain disclosure requirements associated with the fair value of financial instruments. The Company is currently evaluating the impact of adopting ASU 2016-01, which is effective for the Company on January 1, 2018.

Leases. In February 2016, the FASB issued ASU 2016-02, *Leases* ("ASU 2016-02"). ASU 2016-02 requires lessees to recognize assets and liabilities arising from most operating leases on the consolidated statements of financial condition. The Company is currently evaluating the impact of adopting ASU 2016-02, which is effective for the Company on January 1, 2019.

Accounting for Share-Based Payments. In March 2016, the FASB issued ASU 2016-09, *Improvements to Employee Share-Based Payment Accounting* ("ASU 2016-09"). ASU 2016-09 simplifies accounting for employee share-based payment transactions, including the accounting for income taxes, forfeitures, and statutory tax withholding requirements, as well as classification in the consolidated statement of cash flows. The Company adopted ASU 2016-09 as of January 1, 2017. ASU 2016-09 requires all excess tax benefits and deficiencies to be recognized in income tax expense on the consolidated statements of income. Accordingly, the Company expects to record a discrete income tax benefit of approximately \$80 million during the first quarter of 2017 for vested restricted stock units where the grant date stock price was lower than the vesting date stock price. The new guidance could increase the volatility of income tax expense as a result of fluctuations in the Company's stock price. Also, upon adoption, the Company elected to account for forfeitures as they occur, which is not expected to have a material impact on the consolidated financial statements.

Accounting for Credit Losses. In June 2016, the FASB issued ASU 2016-13, *Measurement of Credit Losses on Financial Instruments* ("ASU 2016-13"), which amends the guidance for evaluating the impairment of financial instruments. The new guidance adds an impairment model that is based on expected losses rather than incurred losses. The Company is currently evaluating the impact of adopting ASU 2016-13, which is effective for the Company on January 1, 2020 with early adoption permitted on January 1, 2019.

Cash Flow Classification. In August 2016, the FASB issued ASU 2016-15, *Classification of Certain Cash Receipts and Cash Payments* ("ASU 2016-15"), which amends and clarifies the current guidance to reduce diversity in practice of the classification of certain cash receipts and payments in the statement of cash flows. The Company is currently evaluating the impact of adopting ASU 2016-15, which is effective for the Company on January 1, 2018 with early adoption permitted. The Company must apply the guidance retrospectively to all periods presented.

3. Investments

A summary of the carrying value of total investments is as follows:

(in millions)	December 31, 2016	December 31, 2015
Available-for-sale investments	\$ 80	\$ 44
Held-to-maturity investments	51	108
Trading investments:		
Consolidated sponsored investment funds	465	700
Other equity and debt securities	101	20
Deferred compensation plan mutual funds	59	65
Total trading investments	625	785
Other investments:		
Equity method investments	730	527
Cost method investments ⁽¹⁾	91	95
Carried interest	18	19
Total other investments	839	641
Total investments	\$ 1,595	\$ 1,578

(1) Amounts primarily include Federal Reserve Bank ("FRB") stock.

Available-for-Sale Investments

A summary of the cost and carrying value of investments classified as available-for-sale investments is as follows:

(in millions)	Cost	Gross Unrealized		Carrying Value
		Gains	Losses	
December 31, 2016	\$ 79	\$ 2	\$ (1)	\$ 80
December 31, 2015	\$ 45	\$ 2	\$ (3)	\$ 44

At December 31, 2016 and 2015, available-for-sale investments primarily included investments in CLOs and seed investments in BlackRock sponsored mutual funds.

A summary of sale activity of available-for-sale securities during 2016, 2015 and 2014 is shown below.

(in millions)	Year ended December 31,		
	2016	2015	2014
Sales proceeds	\$ 40	\$ 36	\$ 155
Net realized gain (loss):			
Gross realized gains	\$ 2	\$ 3	\$ 14
Gross realized losses	\$ (1)	\$ (1)	\$ (3)
Net realized gain (loss)	\$ 1	\$ 2	\$ 11

Held-to-Maturity Investments

The carrying value of held-to-maturity investments was \$51 million and \$108 million at December 31, 2016 and 2015, respectively. Held-to-maturity investments included foreign government debt held primarily for regulatory purposes and certain investments in CLOs. The amortized cost (carrying value) of these investments approximated fair value. At December 31, 2016, \$10 million of these investments mature between five years to ten years and \$41 million mature after 10 years.

Trading Investments

A summary of the cost and carrying value of trading investments is as follows:

(in millions)	December 31, 2016		December 31, 2015	
	Cost	Carrying Value	Cost	Carrying Value
Trading investments:				
Deferred compensation plan mutual funds	\$ 41	\$ 59	\$ 48	\$ 65
Equity securities/multi-asset mutual funds	290	308	294	279
Debt securities/fixed income mutual funds:				
Corporate debt	128	128	194	190
Government debt	60	60	202	202
Asset/mortgage backed debt	70	70	49	49
Total trading investments	\$ 589	\$ 625	\$ 787	\$ 785

At December 31, 2016, trading investments included \$246 million of debt securities and \$219 million of equity securities held by consolidated sponsored investment funds accounted for as VREs, \$59 million of certain deferred compensation plan mutual fund investments and \$101 million of other equity and debt securities.

At December 31, 2015, trading investments included \$437 million of debt securities and \$263 million of equity securities held by consolidated sponsored investment funds accounted for as VREs, \$65 million of certain deferred compensation plan mutual fund investments and \$20 million of other equity and debt securities.

Other Investments

A summary of the carrying value of other investments is as follows:

(in millions)	December 31, 2016	December 31, 2015
Other investments:		
Equity method investments	\$ 730	\$ 527
Cost method investments:		
Federal Reserve Bank stock	89	93
Other	2	2
Total cost method investments	91	95
Carried interest ⁽¹⁾	18	19
Total other investments	\$ 839	\$ 641

(1) Carried interest related to VREs.

Equity method investments primarily include BlackRock's direct investments in certain BlackRock sponsored investment funds. See Note 11, *Other Assets*, for more information on the Company's investment in PennyMac Financial Services, Inc. ("PennyMac"), which is included in other assets on the consolidated statements of financial condition.

Cost method investments include nonmarketable securities, primarily FRB stock, which is held for regulatory purposes and is restricted from sale. At December 31, 2016 and 2015, there were no indicators of impairment on these investments.

Carried interest represents allocations to BlackRock's general partner capital accounts from certain funds. These balances are subject to change upon cash distributions, additional allocations or reallocations back to limited partners within the respective funds.

4. Consolidated Voting Rights Entities

The Company consolidates certain sponsored investment funds accounted for as VREs because it is deemed to control such funds. The investments owned by these consolidated VREs are classified as trading investments. The following table presents the balances related to these consolidated VREs that were recorded on the consolidated statements of financial condition, including BlackRock's net interest in these funds:

	December 31, 2016	December 31, 2015
(in millions)		
Cash and cash equivalents	\$ 53	\$ 100
Investments	465	700
Other assets	15	18
Other liabilities	(50)	(77)
Noncontrolling interests	(39)	(125)
BlackRock's net interests in consolidated VREs	\$ 444	\$ 616

BlackRock's total exposure to consolidated VREs represents the value of its economic ownership interest in these sponsored investment funds. Valuation changes associated with investments held at fair value by these consolidated VREs are reflected in nonoperating income (expense) and partially offset in net income (loss) attributable to noncontrolling interests for the portion not attributable to BlackRock.

The Company cannot readily access cash and cash equivalents held by consolidated VREs to use in its operating activities.

5. Variable Interest Entities

In the normal course of business, the Company is the manager of various types of sponsored investment vehicles, which may be considered VIEs. The Company may from time to time own equity or debt securities or enter into derivatives with the vehicles, each of which are considered variable interests. The Company's involvement in financing the operations of the VIEs is generally limited to its investments in the entity. The Company consolidates entities when it is determined to be the PB. See Note 2, *Significant Accounting Policies*, for further information on the Company's accounting policy on consolidation.

Consolidated VIEs. The Company's consolidated VIEs as of December 31, 2016 include certain sponsored investment funds in which BlackRock has an investment and as the investment manager, is deemed to have both the power to direct the most significant activities of the funds and the right to receive benefits (or the obligation to absorb losses) that could potentially be significant to these sponsored investment funds. The assets of these VIEs are not available to creditors of the Company. In addition, the investors in these VIEs have no recourse to the credit of the Company.

Consolidated VIE assets and liabilities are presented after intercompany eliminations at December 31, 2016 and 2015 in the following table:

	December 31, 2016	December 31, 2015
(in millions)		
Assets of consolidated VIEs:		
Cash and cash equivalents	\$ 84	\$ 148
Investments	1,008	1,030
Other assets	63	67
Total investments and other assets	1,071	1,097
Liabilities of consolidated VIEs	(216)	(177)
Noncontrolling interests	(207)	(416)
BlackRock's net interests in consolidated VIEs	\$ 732	\$ 652

The Company recorded a \$16 million nonoperating net gain for 2016 related to consolidated VIEs. Net loss attributable to noncontrolling interests related to consolidated VIEs for 2016 was \$2 million.

The Company recorded a \$58 million nonoperating net gain for 2015 related to consolidated VIEs. Net income attributable to noncontrolling interests related to consolidated VIEs for 2015 was \$6 million.

The Company recorded \$41 million of nonoperating expense and an equal and offsetting loss attributable to noncontrolling interests related to consolidated VIEs for 2014.

Non-Consolidated VIEs. At December 31, 2016 and 2015, the Company's carrying value of assets and liabilities included on the consolidated statements of financial condition pertaining to nonconsolidated VIEs and its maximum risk of loss related to VIEs for which it held a variable interest, but for which it was not the PB, was as follows:

<i>(in millions)</i>					
At December 31, 2016	Investments	Advisory Fee Receivables	Other Net Assets (Liabilities)	Maximum Risk of Loss(1)	
Sponsored investment products	\$ 171	\$ 9	\$ (8)	\$	197
At December 31, 2015					
Sponsored investment products	\$ 64	\$ 3	\$ (7)	\$	84

(1) At December 31, 2016 and 2015, BlackRock's maximum risk of loss associated with these VIEs primarily related to BlackRock's investments and collecting advisory fee receivables.

The net assets of sponsored investment products that are nonconsolidated VIEs approximated \$4 billion and \$3 billion at December 31, 2016 and December 31, 2015, respectively.

6. Fair Value Disclosures

Fair Value Hierarchy

Assets and liabilities measured at fair value on a recurring basis and other assets not held at fair value

	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Investments Measured at NAV(1)	Other Assets Not Held at Fair Value(2)	December 31, 2016
December 31, 2016 <i>(in millions)</i>						
Assets:						
<u>Investments</u>						
Available-for-sale	\$ 7	\$ 49	\$ 24	\$ —	\$ —	\$ 80
Held-to-maturity debt securities	—	—	—	—	51	51
Trading:						
Deferred compensation plan mutual funds	59	—	—	—	—	59
Equity securities / Multi-asset mutual funds	308	—	—	—	—	308
Debt securities / fixed income mutual funds	1	250	7	—	—	258
Total trading	368	250	7	—	—	625
Other investments:						
Equity method:						
Equity and fixed income mutual funds	323	—	—	5	—	328
Other	—	—	—	394	8	402
Total equity method	323	—	—	399	8	730
Cost method investments	—	—	—	—	91	91
Carried interest	—	—	—	—	18	18
Total investments	698	299	31	399	168	1,595
Separate account assets	109,663	38,542	—	—	884	149,089
<u>Separate account collateral held under securities lending agreements:</u>						
Equity securities	22,173	—	—	—	—	22,173
Debt securities	—	5,619	—	—	—	5,619
Total separate account collateral held under securities lending agreements	22,173	5,619	—	—	—	27,792
<u>Investments of consolidated VIEs:</u>						
Private / public equity (3)	3	2	112	89	79	285
Equity securities	278	—	—	—	—	278
Debt securities	—	274	—	—	—	274
Other	—	—	—	63	—	63
Carried interest	—	—	—	—	108	108
Total investments of consolidated VIEs	281	276	112	152	187	1,008
Total	\$ 132,815	\$ 44,736	\$ 143	\$ 551	\$ 1,239	\$ 179,484
Liabilities:						
Separate account collateral liabilities under securities lending agreements	\$ 22,173	\$ 5,619	\$ —	\$ —	\$ —	\$ 27,792
Other liabilities(4)	—	7	115	—	—	122
Total	\$ 22,173	\$ 5,626	\$ 115	\$ —	\$ —	\$ 27,914

(1) Amounts are comprised of certain investments measured at fair value using NAV (or its equivalent) as a practical expedient. These investments have not been classified in the fair value hierarchy.

(2) Amounts are comprised of investments held at cost or amortized cost, carried interest and certain equity method investments, which include sponsored investment funds and other assets, which are not accounted for under a fair value measure. In accordance with GAAP, certain equity method investees do not account for both their financial assets and liabilities under fair value measures; therefore, the Company's investment in such equity method investees may not represent fair value.

(3) Level 3 amounts include direct investments in private equity companies held by private equity funds.

(4) Amounts primarily include recorded contingent liabilities related to certain acquisitions (see Note 13, *Commitments and Contingencies*, for more information).

Assets and liabilities measured at fair value on a recurring basis and other assets not held at fair value

December 31, 2015 (in millions)	Quoted Prices in Active Markets for Identical Assets (Level 1)	Significant Other Observable Inputs (Level 2)	Significant Unobservable Inputs (Level 3)	Investments Measured at NAV(1)	Other Assets Not Held at Fair Value(2)	December 31, 2015
Assets:						
<u>Investments</u>						
Available-for-sale	\$ 19	\$ 2	\$ 23	\$ —	\$ —	\$ 44
Held-to-maturity debt securities	—	—	—	—	108	108
Trading:						
Deferred compensation plan mutual funds	65	—	—	—	—	65
Equity securities / Multi-asset mutual funds	278	—	—	—	—	278
Debt securities / fixed income mutual funds	2	438	2	—	—	442
Total trading	345	438	2	—	—	785
Other investments:						
Equity method:						
Equity and fixed income mutual funds	73	—	—	30	—	103
Other	—	—	—	414	10	424
Total equity method	73	—	—	444	10	527
Cost method investments	—	—	—	—	95	95
Carried interest	—	—	—	—	19	19
Total investments	437	440	25	444	232	1,578
Separate account assets	109,761	40,152	—	—	938	150,851
<u>Separate account collateral held under securities lending agreements:</u>						
Equity securities	26,062	—	—	—	—	26,062
Debt securities	—	5,274	—	—	—	5,274
Total separate account collateral held under securities lending agreements	26,062	5,274	—	—	—	31,336
<u>Investments of consolidated VIEs:</u>						
Private / public equity (3)	6	4	196	145	—	351
Equity securities	298	—	—	—	—	298
Debt securities	—	242	—	—	—	242
Other	—	—	—	58	—	58
Carried interest	—	—	—	—	81	81
Total investments of consolidated VIEs	304	246	196	203	81	1,030
Total	\$ 136,564	\$ 46,112	\$ 221	\$ 647	\$ 1,251	\$ 184,795
Liabilities:						
Separate account collateral liabilities under securities lending agreements	\$ 26,062	\$ 5,274	\$ —	\$ —	\$ —	\$ 31,336
Other liabilities(4)	—	6	48	—	—	54
Total	\$ 26,062	\$ 5,280	\$ 48	\$ —	\$ —	\$ 31,390

(1) Amounts are comprised of certain investments measured at fair value using NAV (or its equivalent) as a practical expedient. These investments have not been classified in the fair value hierarchy.

(2) Amounts are comprised of investments held at cost or amortized cost, carried interest and certain equity method investments, which include sponsored investment funds and other assets, which are not accounted for under a fair value measure. In accordance with GAAP, certain equity method investees do not account for both their financial assets and liabilities under fair value measures; therefore, the Company's investment in such equity method investees may not represent fair value.

(3) Level 3 amounts include direct investments in private equity companies held by private equity funds.

(4) Amounts primarily include recorded contingent liabilities related to certain acquisitions (see Note 13, *Commitments and Contingencies*, for more information).

Level 3 Assets. Level 3 investments of consolidated VIEs of \$112 million and \$196 million at December 31, 2016 and 2015, respectively, related to direct investments in private equity companies held by consolidated private equity funds. Direct investments in private equity companies may be valued using the market approach or the income approach, or a combination thereof, and were valued based on an assessment of each underlying investment, incorporating evaluation of additional significant third-party financing, changes in valuations of comparable peer companies, the business environment of the companies, market indices, assumptions relating to appropriate risk adjustments for nonperformance and legal restrictions on disposition, among other factors. The fair value derived from the methods used is evaluated and weighted, as appropriate, considering the reasonableness of the range of values indicated. Under the market approach, fair value may be determined by reference to multiples of market-comparable companies or transactions, including earnings before interest, taxes, depreciation and amortization ("EBITDA") multiples. Under the income approach, fair value may be determined by discounting the expected cash flows to a single present value amount using current expectations about those future amounts. Unobservable inputs used in a discounted cash flow model may include projections of operating performance generally covering a five-year period and a terminal value of the private equity direct investment. For investments utilizing the discounted cash flow valuation technique, a significant increase (decrease) in the discount rate, risk premium or discount for lack of marketability in isolation could result in a significantly lower (higher) fair value measurement. For investments utilizing the market comparable companies valuation technique, a significant increase (decrease) in the EBITDA multiple in isolation could result in a significantly higher (lower) fair value measurement.

Level 3 assets may include investments in CLOs and bonds valued based on single-broker nonbinding quotes, and direct private equity investments valued using the market approach or the income approach as described above.

Level 3 Liabilities. Level 3 other liabilities primarily include recorded contingent liabilities related to certain acquisitions, which were valued based upon discounted cash flow analyses using unobservable market data inputs.

Changes in Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis for 2016

	December 31, 2015	Realized and Unrealized Gains (Losses) in Earnings and OCI	Purchases	Sales and Maturities	Issuances and Other Settlements(1)	Transfers into Level 3	Transfers out of Level 3(2)	December 31, 2016	Total Net Unrealized Gains (Losses) Included in Earnings(3)
(in millions)									
Assets:									
Investments:									
Available-for-sale securities(4)	\$ 23	\$ —	\$ 47	\$ —	\$ —	\$ —	\$ (46)	\$ 24	\$ —
Trading	2	—	8	—	—	—	(3)	7	—
Total investments	25	—	55	—	—	—	(49)	31	—
Assets of consolidated VIEs - Private equity	196	3	6	(15)	—	—	(78)	112	\$ 3
Total Level 3 assets	\$ 221	\$ 3	\$ 61	\$ (15)	\$ —	\$ —	\$ (127)	\$ 143	\$ 3
Liabilities:									
Other liabilities(5)	\$ 48	\$ 3	\$ —	\$ —	\$ 70	\$ —	\$ —	115	\$ 3

(1) Issuances and other settlements amount includes a contingent liability related to the BofA ® Global Capital Management transaction in April 2016.

(2) Amounts include transfers out of Level 3 due to availability of observable market inputs from pricing vendors.

(3) Earnings attributable to the change in unrealized gains (losses) relating to assets and liabilities still held at the reporting date.

(4) Amounts include investments in CLOs.

(5) Other liabilities amount includes contingent liabilities and payments of contingent liabilities in connection with certain acquisitions.

Changes in Level 3 Assets and Liabilities Measured at Fair Value on a Recurring Basis for 2015

											Total Net Unrealized Gains (Losses) Included in Earnings(3)
(in millions)	December 31, 2014	Realized and Unrealized Gains (Losses) in Earnings and OCI	Purchases	Sales and Maturities	Issuances and Other Settlements(1)(2)	Transfers into Level 3	Transfers out of Level 3	December 31, 2015			
Assets:											
Investments:											
Available-for-sale securities(4)	\$ —	\$ —	\$ 23	\$ —	\$ —	\$ —	\$ —	\$ 23	\$ —		
Trading	—	—	2	—	—	—	—	2	—		
Consolidated sponsored investment funds- Private equity	80	—	—	—	(80)	—	—	—	—		
Total investments	80	—	25	—	(80)	—	—	25	—		
Assets of consolidated VIEs:											
Private equity	—	37	79	—	80	—	—	196	\$ 37		
Bank loans	302	—	—	—	(302)	—	—	—	—		
Bonds	18	—	—	—	(18)	—	—	—	—		
Total assets of consolidated VIEs	320	37	79	—	(240)	—	—	196	37		
Total Level 3 assets	\$ 400	\$ 37	\$ 104	\$ —	\$ (320)	\$ —	\$ —	\$ 221	\$ 37		
Liabilities:											
Borrowings of consolidated VIEs	\$ 3,389	\$ —	\$ —	\$ —	\$ (3,389)	\$ —	\$ —	\$ —	\$ —		
Other liabilities	39	3	—	—	12	—	—	48	3		
Total liabilities	\$ 3,428	\$ 3	\$ —	\$ —	\$ (3,377)	\$ —	\$ —	\$ 48	\$ 3		

- (1) Amounts include the consolidation (deconsolidation) of VIEs due to the adoption of ASU 2015-02 effective January 1, 2015.
(2) Other liabilities amount includes contingent liabilities and payments of contingent liabilities related to certain acquisitions.
(3) Earnings attributable to the change in unrealized gains (losses) relating to assets and liabilities still held at the reporting date.
(4) Amounts include investments in CLOs.

Realized and Unrealized Gains (Losses) for Level 3 Assets and Liabilities. Realized and unrealized gains (losses) recorded for Level 3 assets and liabilities are reported in nonoperating income (expense) on the consolidated statements of income. A portion of net income (loss) for consolidated sponsored investment funds are allocated to noncontrolling interests to reflect net income (loss) not attributable to the Company.

Transfers in and/or out of Levels. Transfers in and/or out of levels are reflected when significant inputs, including market inputs or performance attributes, used for the fair value measurement become observable/unobservable, or when the carrying value of certain equity method investments no longer represents fair value as determined under valuation methodologies.

Disclosures of Fair Value for Financial Instruments Not Held at Fair Value. At December 31, 2016 and 2015, the fair value of the Company's financial instruments not held at fair value are categorized in the table below.

	December 31, 2016		December 31, 2015		Fair Value Hierarchy
	Carrying Amount	Estimated Fair Value	Carrying Amount	Estimated Fair Value	
(in millions)					
Financial Assets:					
Cash and cash equivalents	\$ 6,091	\$ 6,091	\$ 6,083	\$ 6,083	Level 1 (1)
Accounts receivable	2,350	2,350	2,237	2,237	Level 1 (2)
Cash and cash equivalents of consolidated VIEs	84	84	148	148	Level 1 (3)
Financial Liabilities:					
Accounts payable and accrued liabilities	1,094	1,094	1,068	1,068	Level 1 (1)
Long-term borrowings	4,915	5,165	4,930	5,223	Level 2 (2)

- (1) Cash and cash equivalents are carried at either cost or amortized cost, which approximates fair value due to their short-term maturities.
- (2) At both December 31, 2016 and 2015, approximately \$132 million of money market funds were recorded within cash and cash equivalents on the consolidated statements of financial condition. In addition, at December 31, 2016 and 2015, approximately \$13 million and \$68 million, respectively, of money market funds were recorded within cash and cash equivalents of consolidated VIEs. Money market funds are valued based on quoted market prices, or \$1.00 per share, which generally is the NAV of the fund.
- (3) The carrying amounts of accounts receivable, accounts payable and accrued liabilities approximate fair value due to their short-term nature.
- (4) Long-term borrowings are recorded at amortized cost, net of debt issuance costs. The fair value of the long-term borrowings, including the current portion of long-term borrowings, is estimated using market prices at the end of December 2016 and 2015, respectively. See Note 12, *Borrowings*, for the fair value of each of the Company's long-term borrowings.

Investments in Certain Entities that Calculate Net Asset Value Per Share

As a practical expedient to value certain investments that do not have a readily determinable fair value and have attributes of an investment company, the Company uses NAV as the fair value. The following tables list information regarding all investments that use a fair value measurement to account for both their financial assets and financial liabilities in their calculation of a NAV per share (or equivalent).

December 31, 2016

(in millions)	Ref	Fair Value	Total Unfunded Commitments	Redemption Frequency	Redemption Notice Period
<u>Equity method: (1)</u>					
Hedge funds/funds of hedge funds	(a)	\$ 237	\$ 14	Daily/Monthly (21%) Quarterly (51%) N/R (28%)	1 – 90 days
Private equity funds	(b)	90	62	N/R	N/R
Real assets funds	(c)	60	35	Quarterly (41%) N/R (59%)	60 days
Other	(d)	12	9	Daily/Monthly (42%) N/R (58%)	3-5 days
<u>Consolidated VIEs:</u>					
Private equity funds of funds	(e)	89	16	N/R	N/R
Hedge fund	(a)	36	—	Quarterly	90 days
Real assets funds	(c)	27	21	NR	NR
Total		\$ 551	\$ 157		

December 31, 2015

(in millions)	Ref	Fair Value	Total Unfunded Commitments	Redemption Frequency	Redemption Notice Period
Equity method: (1)					
Hedge funds/funds of hedge funds	(a)	\$ 217	\$ 30	Daily/Monthly (22%) Quarterly (52%) N/R (26%)	30 – 90 days
Private equity funds	(b)	89	67	N/R	N/R
Real assets funds	(c)	94	31	Quarterly (25%) N/R (75%)	60 days
Other	(d)	44	5	Daily/Monthly (68%) N/R (32%)	3-5 days
Consolidated VIEs:					
Private equity funds of funds	(e)	145	19	N/R	N/R
Hedge fund	(a)	58	—	Quarterly	90 days
Total		\$ 647	\$ 152		

N/R – not redeemable

- (1) Comprised of equity method investments, which include investment companies, which account for their financial assets and most financial liabilities under fair value measures; therefore, the Company's investment in such equity method investees approximates fair value.
- (a) This category includes hedge funds and funds of hedge funds that invest primarily in equities, fixed income securities, distressed credit, opportunistic and mortgage instruments and other third-party hedge funds. The fair values of the investments have been estimated using the NAV of the Company's ownership interest in partners' capital. It was estimated that the investments in the funds that are not subject to redemption will be liquidated over a weighted-average period of approximately one year at both December 31, 2016 and 2015.
- (b) This category includes several private equity funds that initially invest in nonmarketable securities of private companies, which ultimately may become public in the future. The fair values of these investments have been estimated using capital accounts representing the Company's ownership interest in the funds as well as other performance inputs. The Company's investment in each fund is not subject to redemption and is normally returned through distributions as a result of the liquidation of the underlying assets of the private equity funds. It was estimated that the investments in these funds will be liquidated over a weighted-average period of approximately five years and four years at December 31, 2016 and 2015, respectively.
- (c) This category includes several real assets funds that invest directly in real estate, real estate related assets and infrastructure. The fair values of the investments have been estimated using capital accounts representing the Company's ownership interest in the funds. A majority of the Company's investments are not subject to redemption or are not currently redeemable and are normally returned through distributions as a result of the liquidation of the underlying assets of the funds. It is estimated that the investments in these funds not subject to redemptions will be liquidated over a weighted-average period of approximately seven years and six years at December 31, 2016 and 2015, respectively.
- (d) This category includes deferred compensation plan investments. The investments are not subject to redemption; however, distributions as a result of the liquidation of the underlying assets will be used to settle certain deferred compensation liabilities over time. In addition, this category for 2015 also includes a multi-asset fund that is redeemable. The fair values of the investments have been estimated using capital accounts representing the Company's ownership interest in partners' capital.
- (e) This category includes the underlying third-party private equity funds within consolidated BlackRock sponsored private equity funds of funds. The fair values of the investments in the third-party funds have been estimated using capital accounts representing the Company's ownership interest in each fund in the portfolio as well as other performance inputs. These investments are not subject to redemption; however, for certain funds, the Company may sell or transfer its interest, which may need approval by the general partner of the underlying funds. Due to the nature of the investments in this category, the Company reduces its investment by distributions that are received through the realization of the underlying assets of the funds. It is estimated that the underlying assets of these funds will be liquidated over a weighted-average period of approximately five years at both December 31, 2016 and 2015. The total remaining unfunded commitments to other third-party funds were \$16 million and \$19 million at December 31, 2016 and 2015, respectively. The Company had contractual obligations to the consolidated funds of \$24 million and \$31 million at December 31, 2016 and 2015, respectively.

7. Derivatives and Hedging

The Company maintains a program to enter into swaps to hedge against market price and interest rate exposures with respect to certain seed investments in sponsored investment products. At December 31, 2016, the Company had outstanding total return swaps and interest rate swaps with aggregate notional values of approximately \$572 million and \$42 million, respectively. At December 31, 2015, the Company had outstanding total return swaps and interest rate swaps with aggregate notional values of approximately \$360 million and \$46 million, respectively.

Gains (losses) on total return swaps are recorded in nonoperating income (expense) and were \$(31) million, \$11 million and \$(26) million for 2016, 2015 and 2014, respectively.

Gains (losses) on the interest rate swaps are recorded in nonoperating income (expense) and were \$(21) million for 2014. Gains (losses) were not material for 2016 and 2015.

The Company has entered into a derivative, providing credit protection to a counterparty of approximately \$17 million, representing the Company's maximum risk of loss with respect to the provision of credit protection. The Company carries the derivative at fair value based on the expected discounted future cash outflows under the arrangement.

The Company executes forward foreign currency exchange contracts to mitigate the risk of certain foreign exchange movements. At December 31, 2016 and 2015, the Company had outstanding forward foreign currency exchange contracts with aggregate notional values of approximately \$107 million and \$169 million, respectively.

Gains (losses) on the forward foreign currency exchange contracts are recorded in other general and administration expense and were not material to the consolidated statements of income for 2016, 2015 and 2014.

The Company consolidates certain sponsored investment funds, which may utilize derivative instruments as a part of the funds' investment strategies. The change in fair value of such derivatives, which is recorded in nonoperating income (expense), was not material for 2016, 2015 and 2014.

The fair value of the outstanding derivatives mentioned above were not material to the consolidated statements of financial condition at December 31, 2016 and 2015.

See Note 12, *Borrowings*, for more information on the Company's net investment hedge.

8. Property and Equipment

Property and equipment consists of the following:

(in millions)	Estimated useful life-in years	December 31,	
		2016	2015
Property and equipment:			
Land	N/A	\$ 6	\$ 6
Building	39	33	17
Building improvements	15	29	15
Leasehold improvements	1-15	476	491
Equipment and computer software	3	411	374
Other transportation equipment	10	135	135
Furniture and fixtures	7	65	62
Construction in progress	N/A	5	51
Total		1,160	1,151
Less: accumulated depreciation and amortization		601	570
Property and equipment, net		\$ 559	\$ 581

N/A – Not Applicable

Qualifying software costs of approximately \$50 million, \$48 million and \$45 million have been capitalized within equipment and computer software during 2016, 2015 and 2014, respectively, and are being amortized over an estimated useful life of three years.

Depreciation and amortization expense was \$124 million, \$115 million and \$117 million for 2016, 2015 and 2014, respectively.

9. Goodwill

Goodwill activity during 2016 and 2015 was as follows:

(in millions)	2016	2015
Beginning of year balance	\$ 13,123	\$ 12,961
Acquisitions(1)	14	181
Goodwill adjustments related to Quellos(2)	(19)	(19)
End of year balance	\$ 13,118	\$ 13,123

(1) In 2016, the \$14 million increase represents goodwill from the BofA Global Capital Management transaction in April 2016 that transferred investment management responsibilities of approximately \$80.6 billion of cash assets under management to the Company. Total consideration included \$75 million of contingent consideration at fair value at time of close. BlackRock's platform provides clients with broad access to high quality, global liquidity investment solutions. In 2015, amount represents \$113 million of goodwill from the Company's acquisition of FutureAdvisor, which expanded the Company's digital wealth management capabilities, \$49 million of goodwill from the Company's acquisition of Infraestructura Institucional, which expanded the Company's infrastructure capabilities in Mexico, and \$19 million of goodwill from the Company's acquisition of certain assets related to BlackRock Kelso Capital Advisors LLC. The total consideration paid for these acquisitions was approximately \$300 million, including \$27 million of contingent consideration at fair value at time of close.

(2) The decrease in goodwill during both 2016 and 2015 primarily resulted from a decline related to tax benefits realized from tax-deductible goodwill in excess of book goodwill from the acquisition of the fund-of-funds business of Quellos Group, LLC in October 2007 (the "Quellos Transaction"). Goodwill related to the Quellos Transaction will continue to be reduced in future periods by the amount of tax benefits realized from tax-deductible goodwill in excess of book goodwill from the Quellos Transaction. The balance of the Quellos tax-deductible goodwill in excess of book goodwill was approximately \$200 million and \$231 million at December 31, 2016 and 2015, respectively.

BlackRock assessed its goodwill for impairment as of July 31, 2016, 2015 and 2014 and considered such factors as the book value and the market capitalization of the Company. The impairment assessment indicated no impairment charges were required. The Company continues to monitor its book value per share compared with closing prices of its common stock for potential indicators of impairment. At December 31, 2016, the Company's common stock closed at a market price of \$380.54, which exceeded its book value of approximately \$178.38 per share.

10. Intangible Assets

Intangible assets at December 31, 2016 and 2015 consisted of the following:

	Remaining Weighted- Average Estimated Useful Life	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
<i>(in millions)</i>				
At December 31, 2016				
Indefinite-lived intangible assets:				
Management contracts	N/A	\$ 15,769	\$ —	\$ 15,769
Trade names / trademarks	N/A	1,403	—	1,403
License	N/A	6	—	6
Total indefinite-lived intangible assets		17,178	—	17,178
Finite-lived intangible assets:				
Management contracts	3.9	1,011	827	184
Intellectual property	1.6	6	5	1
Total finite-lived intangible assets	3.8	1,017	832	185
Total intangible assets		\$ 18,195	\$ 832	\$ 17,363
At December 31, 2015				
Indefinite-lived intangible assets:				
Management contracts	N/A	\$ 15,699	\$ —	\$ 15,699
Trade names / trademarks	N/A	1,403	—	1,403
License	N/A	6	—	6
Total indefinite-lived intangible assets		17,108	—	17,108
Finite-lived intangible assets:				
Management contracts	3.7	1,003	741	262
Intellectual property	2.6	6	4	2
Total finite-lived intangible assets	3.7	1,009	745	264
Total intangible assets		\$ 18,117	\$ 745	\$ 17,372

N/A — Not Applicable

The impairment tests performed for intangible assets as of July 31, 2016, 2015 and 2014 indicated no impairment charges were required.

Estimated amortization expense for finite-lived intangible assets for each of the five succeeding years is as follows:

<i>(in millions)</i>	Amount
Year	
2017	\$ 82
2018	32
2019	30
2020	16
2021	13

In April 2016, in connection with the BofA Global Capital Management transaction, the Company acquired \$70 million of indefinite-lived management contracts and \$20 million of finite-lived management contracts with a weighted-average estimated life of approximately 10 years.

11. Other Assets

The Company accounts for its interest in PennyMac as an equity method investment, which is included in other assets on the consolidated statements of financial condition. The carrying value and fair value of the Company's interest (approximately 20% or 16 million shares and units) was approximately \$301 million and \$259 million, respectively, at December 31, 2016 and approximately \$222 million and \$239 million, respectively, at December 31, 2015. The fair value of the Company's interest reflected the PennyMac stock price at December 31, 2016 and 2015, respectively (a Level 1 input). The Company performed an other-than-temporary impairment analysis as of December 31, 2016 and determined the decline in fair value below the carrying value to be temporary.

12. Borrowings

Short-Term Borrowings

2016 Revolving Credit Facility. The Company's credit facility has an aggregate commitment amount of \$4.0 billion and was amended in April 2016 to extend the maturity date to March 2021 (the "2016 credit facility"). The 2016 credit facility permits the Company to request up to an additional \$1.0 billion of borrowing capacity, subject to lender credit approval, increasing the overall size of the 2016 credit facility to an aggregate principal amount not to exceed \$5.0 billion. Interest on borrowings outstanding accrues at a rate based on the applicable London Interbank Offered Rate plus a spread. The 2016 credit facility requires the Company not to exceed a maximum leverage ratio (ratio of net debt to earnings before interest, taxes, depreciation and amortization, where net debt equals total debt less unrestricted cash) of 3 to 1, which was satisfied with a ratio of less than 1 to 1 at December 31, 2016. The 2016 credit facility provides back-up liquidity to fund ongoing working capital for general corporate purposes and various investment opportunities. At December 31, 2016, the Company had no amount outstanding under the 2016 credit facility.

Commercial Paper Program. The Company can issue unsecured commercial paper notes (the "CP Notes") on a private-placement basis up to a maximum aggregate amount outstanding at any time of \$4.0 billion. The commercial paper program is currently supported by the 2016 credit facility. At December 31, 2016, BlackRock had no CP Notes outstanding.

Long-Term Borrowings

The carrying value and fair value of long-term borrowings estimated using market prices and foreign exchange rates at December 31, 2016 included the following:

(in millions)	Unamortized Discount and Debt		Carrying Value	Fair Value
	Maturity Amount	Issuance Costs		
6.25% Notes due 2017	\$ 700	\$ —	\$ 700	\$ 724
5.00% Notes due 2019	1,000	(3)	997	1,086
4.25% Notes due 2021	750	(4)	746	808
3.375% Notes due 2022	750	(4)	746	775
3.50% Notes due 2024	1,000	(6)	994	1,030
1.25% Notes due 2025	738	(6)	732	742
Total Long-term Borrowings	\$ 4,938	\$ (23)	\$ 4,915	\$ 5,165

Long-term borrowings at December 31, 2015 had a carrying value of \$4.9 billion and a fair value of \$5.2 billion determined using market prices at the end of December 2015.

2025 Notes. In May 2015, the Company issued €700 million of 1.25% senior unsecured notes maturing on May 6, 2025 (the "2025 Notes"). The notes are listed on the New York Stock Exchange. The net proceeds of the 2025 Notes were used for general corporate purposes, including refinancing of outstanding indebtedness. Interest of approximately \$9 million per year based on current exchange rates is payable annually on May 6 of each year. The 2025 Notes may be redeemed in whole or in part prior to maturity at any time at the option of the Company at a "make-whole" redemption price. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2025 Notes.

Upon conversion to U.S. dollars the Company designated the €700 million debt offering as a net investment hedge to offset its currency exposure relating to its net investment in certain euro functional currency operations. Gains of \$14 million (net of tax of \$8 million) and \$19 million (net of tax of \$11 million) were recognized in other comprehensive income for 2016 and 2015, respectively. No hedge ineffectiveness was recognized during 2016.

2024 Notes. In March 2014, the Company issued \$1.0 billion in aggregate principal amount of 3.50% senior unsecured and unsubordinated notes maturing on March 18, 2024 (the "2024 Notes"). The net proceeds of the 2024 Notes were used to refinance certain indebtedness which matured in the fourth quarter of 2014. Interest is payable semi-annually in arrears on March 18 and September 18 of each year, or approximately \$35 million per year. The 2024 Notes may be redeemed prior to maturity at any time in whole or in part at the option of the Company at a "make-whole" redemption price. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2024 Notes.

2022 Notes. In May 2012, the Company issued \$1.5 billion in aggregate principal amount of unsecured unsubordinated obligations. These notes were issued as two separate series of senior debt securities, including \$750 million of 1.375% notes, which were repaid in June 2015 at maturity, and \$750 million of 3.375% notes maturing in June 2022 (the "2022 Notes"). Net proceeds were used to fund the repurchase of BlackRock's common stock and Series B Preferred from Barclays and affiliates and for general corporate purposes. Interest on the 2022 Notes of approximately \$25 million per year is payable semi-annually on June 1 and December 1 of each year, which commenced December 1, 2012. The 2022 Notes may be redeemed prior to maturity at any time in whole or in part at the option of the Company at a "make-whole" redemption price. The "make-whole" redemption price represents a price, subject to the specific terms of the 2022 Notes and related indenture, that is the greater of (a) par value and (b) the present value of future payments that will not be paid because of an early redemption, which is discounted at a fixed spread over a comparable Treasury security. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2022 Notes.

2021 Notes. In May 2011, the Company issued \$1.5 billion in aggregate principal amount of unsecured unsubordinated obligations. These notes were issued as two separate series of senior debt securities, including \$750 million of 4.25% notes maturing in May 2021 and \$750 million of floating rate notes, which were repaid in May 2013 at maturity. Net proceeds of this offering were used to fund the repurchase of BlackRock's Series B Preferred from affiliates of Merrill Lynch & Co., Inc. Interest on the 4.25% notes due in 2021 ("2021 Notes") is payable semi-annually on May 24 and November 24 of each year, which commenced November 24, 2011, and is approximately \$32 million per year. The 2021 Notes may be redeemed prior to maturity at any time in whole or in part at the option of the Company at a "make-whole" redemption price. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2021 Notes.

2019 Notes. In December 2009, the Company issued \$2.5 billion in aggregate principal amount of unsecured and unsubordinated obligations. These notes were issued as three separate series of senior debt securities including \$0.5 billion of 2.25% notes, which were repaid in December 2012, \$1.0 billion of 3.50% notes, which were repaid in December 2014 at maturity, and \$1.0 billion of 5.0% notes maturing in December 2019 (the "2019 Notes"). Net proceeds of this offering were used to repay borrowings under the CP Program, which was used to finance a portion of the acquisition of Barclays Global Investors from Barclays on December 1, 2009, and for general corporate purposes. Interest on the 2019 Notes of approximately \$50 million per year is payable semi-annually in arrears on June 10 and December 10 of each year. These notes may be redeemed prior to maturity at any time in whole or in part at the option of the Company at a "make-whole" redemption price. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2019 Notes.

2017 Notes. In September 2007, the Company issued \$700 million in aggregate principal amount of 6.25% senior unsecured and unsubordinated notes maturing on September 15, 2017 (the "2017 Notes"). A portion of the net proceeds of the 2017 Notes was used to fund the initial cash payment for the acquisition of the fund-of-funds business of Quellos and the remainder was used for general corporate purposes. Interest is payable semi-annually in arrears on March 15 and September 15 of each year, or approximately \$44 million per year. The 2017 Notes may be redeemed prior to maturity at any time in whole or in part at the option of the Company at a "make-whole" redemption price. The unamortized discount and debt issuance costs are being amortized over the remaining term of the 2017 Notes.

13. Commitments and Contingencies

Operating Lease Commitments

The Company leases its primary office spaces under agreements that expire through 2035. Future minimum commitments under these operating leases are as follows:

(in millions)	
Year	Amount
2017	142
2018	135
2019	125
2020	120
2021	112
Thereafter	404
Total	\$ 1,038

Rent expense and certain office equipment expense under lease agreements amounted to \$134 million, \$136 million and \$132 million in 2016, 2015 and 2014, respectively.

Investment Commitments. At December 31, 2016, the Company had \$192 million of various capital commitments to fund sponsored investment funds, including consolidated VIEs. These funds include private equity funds, real assets funds, and opportunistic funds. This amount excludes additional commitments made by consolidated funds of funds to underlying third-party funds as third-party noncontrolling interest holders have the legal obligation to fund the respective commitments of such funds of funds. In addition to the capital commitments of \$192 million, the Company had approximately \$12 million of contingent commitments for certain funds which have investment periods that have expired. Generally, the timing of the funding of these commitments is unknown and the commitments are callable on demand at any time prior to the expiration of the commitment. These unfunded commitments are not recorded on the consolidated statements of financial condition. These commitments do not include potential future commitments approved by the Company that are not yet legally binding. The Company intends to make additional capital commitments from time to time to fund additional investment products for, and with, its clients.

Contingencies

Contingent Payments Related to Business Acquisitions. In connection with certain acquisitions, BlackRock is required to make contingent payments, subject to achieving specified performance targets, which may include revenue related to acquired contracts or new capital commitments for certain products. The fair value of the remaining aggregate contingent payments at December 31, 2016 totaled \$115 million and is included in other liabilities on the consolidated statement of financial condition.

Other Contingent Payments. The Company acts as the portfolio manager in a series of derivative transactions and has a maximum potential exposure of \$17 million between the Company and counterparty. See Note 7, *Derivatives and Hedging*, for further discussion.

Legal Proceedings. From time to time, BlackRock receives subpoenas or other requests for information from various U.S. federal, state governmental and domestic and international regulatory authorities in connection with certain industry-wide or other investigations or proceedings. It is BlackRock's policy to cooperate fully with such inquiries. The Company and certain of its subsidiaries have been named as defendants in various legal actions, including arbitrations and other litigation arising in connection with BlackRock's activities. Additionally, BlackRock-advised investment portfolios may be subject to lawsuits, any of which potentially could harm the investment returns of the applicable portfolio or result in the Company being liable to the portfolios for any resulting damages.

On May 27, 2014, certain purported investors in the BlackRock Global Allocation Fund, Inc. and the BlackRock Equity Dividend Fund (collectively, the "Funds") filed a consolidated complaint (the "Consolidated Complaint") in the U.S. District Court for the District of New Jersey against BlackRock Advisors, LLC, BlackRock Investment Management, LLC and BlackRock International Limited (collectively, the "Defendants") under the caption *In re BlackRock Mutual Funds Advisory Fee Litigation*. The Consolidated Complaint, which purports to be brought derivatively on behalf of the Funds, alleges that the Defendants violated Section 36(b) of the Investment Company Act by receiving allegedly excessive investment advisory fees from the Funds. On February 24, 2015, the same plaintiffs filed another complaint in the same court against BlackRock Investment Management, LLC and BlackRock Advisors, LLC. The allegations and legal claims in both complaints are substantially similar, with the new complaint purporting to challenge fees received by Defendants after the plaintiffs filed their prior complaint. Both complaints seek, among other things, to recover on behalf of the Funds all allegedly excessive advisory fees received by Defendants in the period beginning twelve months preceding the start of each lawsuit and ending on the date of judgment in each case, along with purported lost investment returns on those amounts, plus interest. On March 25, 2015, Defendants' motion to dismiss the Consolidated Complaint was denied. The Defendants believe the claims in both lawsuits are without merit and intend to vigorously defend the actions.

Between November 12, 2015 and November 16, 2015, BlackRock, Inc., BlackRock Realty Advisors, Inc. ("BRA") and BlackRock US Core Property Fund, Inc. (formerly known as the BlackRock Granite Property Fund, Inc.) ("Granite Fund"), along with certain other Granite Fund-related entities (collectively, the "BlackRock Parties") were named as defendants in thirteen lawsuits filed in the Superior Court of the State of California for the County of Alameda arising out of the June 16, 2015 collapse of a balcony at the Library Gardens apartment complex in Berkeley, California (the "Property"). The Property is indirectly owned by the Granite Fund, which is managed by BRA. The plaintiffs also named as defendants in the lawsuits Greystar, which is the property manager of the Property, and certain other entities, including the developer of the Property, building contractors and building materials suppliers. The plaintiffs allege, among other things, that the BlackRock Parties were negligent in their ownership, control and maintenance of the Property's balcony, and seek monetary, including punitive, damages. Additionally, on March 16, 2016, three former tenants of the Library Gardens apartment unit that experienced the balcony collapse sued the BlackRock Parties. The former tenants, who witnessed (but were not physically injured in) the accident make allegations virtually identical to those in the previously filed actions and claim that, as a result of the collapse, they suffered unspecified emotional damage. Several defendants have also filed cross-complaints alleging a variety of claims, including claims against the BlackRock Parties for contribution, negligence, and declaratory relief. BlackRock believes the claims against the BlackRock Parties are without merit and intends to vigorously defend the actions.

Management, after consultation with legal counsel, currently does not anticipate that the aggregate liability arising out of regulatory matters or lawsuits will have a material effect on BlackRock's results of operations, financial position, or cash flows. However, there is no assurance whether any such pending or threatened matters will have a material effect on BlackRock's results of operations, financial position or cash flows in any future reporting period. Due to uncertainties surrounding the outcome of these matters, management cannot reasonably estimate the possible loss or range of loss that may arise from these matters.

Indemnifications. In the ordinary course of business or in connection with certain acquisition agreements, BlackRock enters into contracts pursuant to which it may agree to indemnify third parties in certain circumstances. The terms of these indemnities vary from contract to contract and the amount of indemnification liability, if any, cannot be determined or the likelihood of any liability is considered remote. Consequently, no liability has been recorded on the consolidated statements of financial condition.

In connection with securities lending transactions, BlackRock has issued certain indemnifications to certain securities lending clients against potential loss resulting from a borrower's failure to fulfill its obligations under the securities lending agreement should the value of the collateral pledged by the borrower at the time of default be insufficient to cover the borrower's obligation under the securities lending agreement. At December 31, 2016, the Company indemnified certain of its clients for their securities lending loan balances of approximately \$169.3 billion. The Company held as agent, cash and securities totaling \$180.1 billion as collateral for indemnified securities on loan at December 31, 2016. The fair value of these indemnifications was not material at December 31, 2016.

14. Stock-Based Compensation

The components of stock-based compensation expense are as follows:

<i>(in millions)</i>	2016	2015	2014
Stock-based compensation:			
Restricted stock and RSUs	\$ 493	\$ 484	\$ 421
Long-term incentive plans to be funded by PNC	28	30	32
Total stock-based compensation	\$ 521	\$ 514	\$ 453

Stock Award and Incentive Plan. Pursuant to the BlackRock, Inc. Second Amended and Restated 1999 Stock Award and Incentive Plan (the "Award Plan"), options to purchase shares of the Company's common stock at an exercise price not less than the market value of BlackRock's common stock on the date of grant in the form of stock options, restricted stock or RSUs may be granted to employees and nonemployee directors. A maximum of 34,500,000 shares of common stock were authorized for issuance under the Award Plan. Of this amount, 5,918,096 shares remain available for future awards at December 31, 2016. Upon exercise of employee stock options, the issuance of restricted stock or the vesting of RSUs, the Company issues shares out of treasury to the extent available.

Restricted Stock and RSUs. Pursuant to the Award Plan, restricted stock grants and RSUs may be granted to certain employees. Substantially all restricted stock and RSUs vest over periods ranging from one to three years and are expensed using the straight-line method over the requisite service period for each separately vesting portion of the award as if the award was, in-substance, multiple awards.

Restricted stock and RSU activity for 2016 is summarized below.

Outstanding at	Restricted Stock and RSUs	Weighted-Average Grant Date Fair Value
December 31, 2015	3,067,737	\$ 308.42
Granted	1,481,125	\$ 301.01
Converted	(1,455,072)	\$ 283.64
Forfeited	(106,202)	\$ 274.18
December 31, 2016(1)	2,987,588	\$ 318.04

(1) At December 31, 2016, approximately 2.7 million awards are expected to vest and 0.3 million awards have vested but have not been converted.

The Company values restricted stock and RSUs at their grant-date fair value as measured by BlackRock's common stock price. The total fair market value of RSUs/restricted stock granted to employees during 2016, 2015 and 2014 was \$446 million, \$473 million and \$472 million, respectively. The total fair market value of RSUs/restricted stock converted to common stock during 2016, 2015 and 2014 was \$413 million, \$379 million and \$534 million, respectively.

At December 31, 2016, the intrinsic value of outstanding RSUs was \$1.1 billion, reflecting a closing stock price of \$380.54 at December 31, 2016.

RSUs/restricted stock granted in connection with annual incentive compensation under the Award Plan primarily related to the following:

	2016	2015	2014
Awards granted that vest ratably over three years from the date of grant	1,030,964	952,329	1,022,295
Awards granted that cliff vest 100% on:			
January 31, 2017	—	—	287,963
January 31, 2018	—	303,999	—
January 31, 2019	303,587	—	—
	1,334,551	1,256,328	1,310,258

In addition the Company also granted RSUs of 146,574, 120,935 and 166,018 during 2016, 2015 and 2014, respectively with varying vesting periods up to three years.

At December 31, 2016, there was \$288 million in total unrecognized stock-based compensation expense related to unvested RSUs. The unrecognized compensation cost is expected to be recognized over the remaining weighted-average period of less than one year.

In January 2017, the Company granted under the Award Plan

- 699,991 RSUs or shares of restricted stock to employees as part of annual incentive compensation that vest ratably over three years from the date of grant; and
- 277,313 RSUs or shares of restricted stock to employees that cliff vest 100% on January 31, 2020.

Performance-Based RSUs. Pursuant to the Award Plan, performance-based RSUs may be granted to certain employees. Each performance-based award consists of a "base" number of RSUs granted to the employee. The number of shares that an employee ultimately receives at vesting will be equal to the base number of performance-based RSUs granted, multiplied by a predetermined percentage determined in accordance with the level of attainment of Company performance measures during the performance period and could be higher or lower than the original RSU grant. The awards are generally forfeited if the employee leaves the Company before the vesting date. Performance-based RSUs are not considered participating securities as the dividend equivalents are subject to forfeiture prior to vesting of the award.

In the first quarter of 2016 and 2015, the Company granted 375,242 and 262,847, respectively, performance-based RSUs to certain employees that cliff vest 100% on January 31, 2019 and 2018, respectively. These awards are amortized over a service period of three years. The number of shares distributed at vesting could be higher or lower than the original grant based on the level of attainment of predetermined Company performance measures.

Performance-based RSU activity for 2016 is summarized below.

Outstanding at	Performance-Based RSUs		Weighted-Average Grant Date Fair Value
December 31, 2015	255,868	\$	343.86
Granted	375,242	\$	296.97
Forfeited	(20,739)	\$	325.65
December 31, 2016	610,371	\$	315.65

At December 31, 2016, total unrecognized stock-based compensation expense related to unvested performance-based awards was \$94 million. The unrecognized compensation cost is expected to be recognized over the remaining weighted-average period of 1.7 years.

The Company values performance-based RSUs at their grant-date fair value as measured by BlackRock's common stock price. The total grant-date fair market value of performance-based RSUs granted to employees during 2016 was \$111 million.

At December 31, 2016, the intrinsic value of outstanding performance-based RSUs was \$232 million reflecting a closing stock price of \$380.54.

In January 2017, the Company granted 293,385 performance-based RSUs to certain employees that cliff vest 100% on January 31, 2020. These awards are amortized over a service period of three years. The number of shares distributed at vesting could be higher or lower than the original grant based on the level of attainment of predetermined Company performance measures.

Market Performance-based RSUs. Pursuant to the Award Plan, market performance-based RSUs may be granted to certain employees. The market performance-based RSUs require that separate 15%, 25% and 35% share price appreciation targets be achieved during the six-year term of the awards. The awards are split into three tranches and each tranche may vest if the specified target increase in share price is met. Eligible vesting dates for each tranche are January 31 (or, if such date is not a business day, the next following business day) of the year in which the fourth, fifth or sixth anniversaries of the grant-date occurs. Certain awards are forfeited if the employee leaves BlackRock before the vesting date. These awards are amortized over a service period of four years, which is the longer of the explicit service period or the period in which the market target is expected to be met. Market performance-based RSUs are not considered participating securities as the dividend equivalents are subject to forfeiture prior to vesting of the award. During 2016 and 2015 there were no market performance-based awards granted. In 2014, the Company granted 315,961 market performance-based RSUs.

Market performance-based RSU activity for 2016 is summarized below.

Outstanding at	Market Performance-Based RSUs		Weighted-Average Grant Date Fair Value
December 31, 2015	1,378,177	\$	137.07
Converted	(548,227)	\$	115.03
Forfeited	(26,476)	\$	164.67
December 31, 2016(1)	803,474	\$	151.20

(1) At December 31, 2016, approximately 0.7 million awards are expected to vest and an immaterial amount of awards have vested and have not been converted.

At December 31, 2016, total unrecognized stock-based compensation expense related to unvested market performance-based awards was \$14 million. The unrecognized compensation cost is expected to be recognized over the remaining weighted-average period of less than one year.

At December 31, 2016, the intrinsic value of outstanding market performance-based awards was \$306 million reflecting a closing stock price of \$380.54.

The grant-date fair value of the awards was \$62 million in 2014. The fair value was calculated using a Monte Carlo simulation with the following assumptions:

Grant Year	Risk-Free Interest Rate	Performance Period	Expected Stock Volatility	Expected Dividend Yield
2014	2.05 %	6	27.40 %	2.42 %

The Company's expected stock volatility assumption was based upon an average of the historical stock price fluctuations of BlackRock's common stock and an implied volatility at the grant-date. The dividend yield assumption was derived using estimated dividends over the expected term and the stock price at the date of grant. The risk-free interest rate is based on the U.S. Treasury yield at date of grant.

Long-Term Incentive Plans Funded by PNC. Under a share surrender agreement, PNC committed to provide up to 4 million shares of BlackRock stock, held by PNC, to fund certain BlackRock long-term incentive plans ("LTIP"), including performance-based and market performance-based RSUs. The current share surrender agreement commits PNC to provide BlackRock Series C nonvoting participating preferred stock to fund the remaining committed shares. As of December 31, 2016, 3.2 million shares had been surrendered by PNC.

At December 31, 2016, the remaining shares committed by PNC of 0.8 million were available to fund certain future long-term incentive awards.

517,138 shares were surrendered by PNC in the first quarter of 2017.

Stock Options. Stock option grants were made to certain employees pursuant to the Award Plan in 1999 through 2007. Options granted had a ten-year life, vested ratably over periods ranging from two to five years and became exercisable upon vesting. The Company has not granted any stock options subsequent to the January 2007 grant, which vested on September 29, 2011. Stock option activity for 2016 is summarized below.

	Shares under option		Weighted average exercise price
Outstanding at			
December 31, 2015	154,094	\$	167.76
Exercised	(154,094)	\$	167.76
December 31, 2016	—		

The aggregate intrinsic value of options exercised during 2016, 2015 and 2014 was \$30 million, \$128 million and \$4 million, respectively.

Employee Stock Purchase Plan ("ESPP"). The ESPP allows eligible employees to purchase the Company's common stock at 95% of the fair market value on the last day of each three-month offering period. The Company does not record compensation expense related to employees purchasing shares under the ESPP.

15. Employee Benefit Plans

Deferred Compensation Plans

Voluntary Deferred Compensation Plan. The Company adopted a Voluntary Deferred Compensation Plan ("VDCP") that allows eligible employees in the United States to elect to defer between 1% and 100% of their annual cash incentive compensation. The participants must specify a deferral period of up to 10 years from the year of deferral and additionally, elect to receive distributions in the form of a lump sum or in up to 10 annual installments. The Company may fund the obligation through the rabbi trust on behalf of the plan's participants.

The rabbi trust established for the VDCP, with assets totaling \$59 million and \$65 million at December 31, 2016 and 2015, respectively, is reflected in investments on the consolidated statements of financial condition. Such investments are classified as trading investments. The corresponding liability balance of \$83 million and \$88 million at December 31, 2016 and 2015, respectively, is reflected on the consolidated statements of financial condition as accrued compensation and benefits. Earnings in the rabbi trust, including unrealized appreciation or depreciation, are reflected as nonoperating income (expense) and changes in the corresponding liability are reflected as employee compensation and benefits expense on the consolidated statements of income.

Other Deferred Compensation Plans. The Company has additional compensation plans for the purpose of providing deferred compensation and retention incentives to certain employees. For these plans, the final value of the deferred amount to be distributed in cash upon vesting is primarily associated with investment returns of certain investment funds. The liabilities for these plans were \$223 million and \$178 million at December 31, 2016 and 2015, respectively, and are reflected in the consolidated statements of financial condition as accrued compensation and benefits. In January 2017, the Company granted approximately \$110 million of additional deferred compensation that will fluctuate with investment returns and will vest ratably over three years from the date of grant.

Defined Contribution Plans

The Company has several defined contribution plans primarily in the United States and United Kingdom.

Certain of the Company's U.S. employees participate in a defined contribution plan ("U.S. Plan"). Employee contributions of up to 8% of eligible compensation, as defined by the plan and subject to Internal Revenue Code limitations, are matched by the Company at 50% up to a maximum of \$5,000 annually. In addition, the Company makes an annual retirement contribution to eligible participants equal to 3-5% of eligible

compensation. In 2016, 2015 and 2014, the Company's contribution expense related to the U.S. Plan was \$75 million, \$72 million and \$67 million, respectively.

Certain U.K. wholly owned subsidiaries of the Company contribute to a defined contribution plan for their employees. The contributions range between 6% and 15% of each employee's eligible compensation. The Company's contribution expense related to this plan was \$30 million in 2016, and \$33 million in both 2015 and 2014.

In addition, the contribution expense related to defined contribution plans in other regions was \$20 million in 2016 and \$18 million in both 2015 and 2014.

Defined Benefit Plans. The Company has several defined benefit pension plans primarily in Japan and Germany. All accrued benefits under the Germany defined benefit plan are currently frozen and the plan is closed to new participants. The participant benefits under the Germany plan will not change with salary increases or additional years of service. At December 31, 2016 and 2015, the plan assets for both these plans were approximately \$23 million and \$22 million, respectively. The underfunded obligations at December 31, 2016 and 2015 were not material. Benefit payments for the next five years and in aggregate for the five years thereafter are not expected to be material.

16. Related Party Transactions

Determination of Related Parties

PNC. The Company considers PNC, along with its affiliates, to be related parties based on the level of its ownership of BlackRock capital stock. At December 31, 2016, PNC owned approximately 21.3% of the Company's voting common stock and held approximately 22.0% of the total capital stock.

Registered Investment Companies and Equity Method Investments. The Company considers the registered investment companies that it manages, which include mutual funds and exchange-traded funds, to be related parties as a result of the Company's advisory relationship. In addition, equity method investments are considered related parties, due to the Company's influence over the financial and operating policies of the investee.

Revenue from Related Parties

Revenues for services provided by the Company to these and other related parties are as follows:

(in millions)	2016	2015	2014
Investment advisory, administration fees and securities lending revenue:			
PNC and affiliates	\$ 3	\$ 4	\$ 5
Registered investment companies/equity method investees	6,833	6,871	6,733
Total investment advisory, administration fees, and securities lending revenue	6,836	6,875	6,738
Investment advisory performance fees	125	129	173
BlackRock Solutions and advisory:			
PNC and affiliates	7	7	7
Equity method investees	—	—	6
Total BlackRock Solutions and advisory	7	7	13
Other revenue:			
PNC and affiliates	3	3	3
Equity method investees	87	70	67
Total other revenue	90	73	70
Total revenue from related parties	\$ 7,058	\$ 7,084	\$ 6,994

The Company provides investment advisory and administration services to its open- and closed-end funds and other commingled or pooled funds and separate accounts in which related parties invest. In addition, the Company provides investment advisory and administration services to PNC and its affiliates for fees based on AUM. Further, the Company provides risk management services to PNC. The Company records its investment advisory and administration fees net of retrocessions.

Aggregate Expenses for Transactions with Related Parties

Aggregate expenses included in the consolidated statements of income for transactions with related parties are as follows:

(in millions)	2016	2015	2014
Expense with related parties:			
Distribution and servicing costs			
PNC and affiliates	\$ 2	\$ 2	\$ 2
Total distribution and servicing costs	2	2	2
General and administration expense			
Other registered investment companies	61	60	55
Other	4	18	5
Total general and administration expense	65	78	60
Total expense with related parties	\$ 67	\$ 80	\$ 62

Certain Agreements and Arrangements with PNC

PNC. On February 27, 2009, BlackRock entered into an amended and restated implementation and stockholder agreement with PNC, and a third amendment to the share surrender agreement with PNC.

Receivables and Payables with Related Parties. Due from related parties, which is included within other assets on the consolidated statements of financial condition was \$100 million and \$73 million at December 31, 2016 and 2015, respectively, and primarily represented receivables from certain investment products managed by BlackRock. Accounts receivable at December 31, 2016 and 2015 included \$688 million and \$705 million, respectively, related to receivables from BlackRock mutual funds, including *iShares*, for investment advisory and administration services.

Due to related parties, which is included within other liabilities on the consolidated statements of financial condition, was \$19 million and \$18 million at December 31, 2016 and 2015, respectively, and primarily represented payables to certain investment products managed by BlackRock.

17. Net Capital Requirements

The Company is required to maintain net capital in certain regulated subsidiaries within a number of jurisdictions, which is partially maintained by retaining cash and cash equivalent investments in those subsidiaries or jurisdictions. As a result, such subsidiaries of the Company may be restricted in their ability to transfer cash between different jurisdictions and to their parents. Additionally, transfers of cash between international jurisdictions, including repatriation to the United States, may have adverse tax consequences that could discourage such transfers.

Banking Regulatory Requirements. BlackRock Institutional Trust Company, N.A. ("BTC"), a wholly owned subsidiary of the Company, is chartered as a national bank whose powers are limited to trust activities. BTC is subject to regulatory capital requirements administered by the Office of the Comptroller of the Currency. Failure to meet minimum capital requirements can initiate certain mandatory and possibly additional discretionary actions by regulators that, if undertaken, could have a direct material effect on the consolidated financial statements. Under the capital adequacy guidelines and the regulatory framework for prompt corrective action, BTC must meet specific capital guidelines that invoke quantitative measures of BTC's assets, liabilities, and certain off-balance sheet items as calculated under the regulatory accounting practices. BTC's capital amounts and classification are also subject to qualitative judgments by the regulators about components, risk weightings and other factors.

Quantitative measures established by regulators to ensure capital adequacy require BTC to maintain a minimum Common Equity Tier 1 capital and Tier 1 leverage ratio, as well as Tier 1 and total risk-based capital ratios. Based on BTC's calculations as of December 31, 2016 and 2015, it exceeded the applicable capital adequacy requirements.

	Actual		For Capital Adequacy Purposes		To Be Well Capitalized Under Prompt Corrective Action Provisions	
	Amount	Ratio	Amount	Ratio	Amount	Ratio
<i>(in millions)</i>						
December 31, 2016						
Total capital (to risk weighted assets)	\$ 1,211	92.5 %	\$ 105	8.0 %	\$ 131	10.0 %
Common Equity Tier 1 capital (to risk weighted assets)	\$ 1,211	92.5 %	\$ 59	4.5 %	\$ 85	6.5 %
Tier 1 capital (to risk weighted assets)	\$ 1,211	92.5 %	\$ 79	6.0 %	\$ 105	8.0 %
Tier 1 capital (to average assets)	\$ 1,211	65.3 %	\$ 74	4.0 %	\$ 93	5.0 %
December 31, 2015						
Total capital (to risk weighted assets)	\$ 1,593	88.6 %	\$ 144	8.0 %	\$ 180	10.0 %
Common Equity Tier 1 capital (to risk weighted assets)	\$ 1,593	88.6 %	\$ 81	4.5 %	\$ 117	6.5 %
Tier 1 capital (to risk weighted assets)	\$ 1,593	88.6 %	\$ 108	6.0 %	\$ 144	8.0 %
Tier 1 capital (to average assets)	\$ 1,593	66.7 %	\$ 96	4.0 %	\$ 119	5.0 %

Broker-dealers. BlackRock Investments, LLC and BlackRock Execution Services are registered broker-dealers and wholly owned subsidiaries of BlackRock that are subject to the Uniform Net Capital requirements under the Securities Exchange Act of 1934, which requires maintenance of certain minimum net capital levels.

Capital Requirements. At December 31, 2016 and 2015, the Company was required to maintain approximately \$1.4 billion and \$1.1 billion, respectively, in net capital in certain regulated subsidiaries, including BTC, entities regulated by the Financial Conduct Authority and Prudential Regulation Authority in the United Kingdom, and the Company's broker-dealers. The Company was in compliance with all applicable regulatory net capital requirements.

18. Accumulated Other Comprehensive Income (Loss)

The following table presents changes in accumulated other comprehensive income (loss) ("AOCI") by component for 2016, 2015 and 2014:

<i>(in millions)</i>	Unrealized Gains (Losses) on Available-for-sale Investments(1)	Benefit Plans	Foreign Currency Translation Adjustments(2)	Total
December 31, 2013	\$ 7	\$ 6	\$ (48)	\$ (35)
Other comprehensive income (loss) before reclassifications	3	(2)	(231)	(230)
Amount reclassified from AOCI(3)	(8)	—	—	(8)
Net other comprehensive income (loss) for 2014	(5)	(2)	(231)	(238)
December 31, 2014	\$ 2	\$ 4	\$ (279)	\$ (273)
Other comprehensive income (loss) before reclassifications	(1)	1	(173)	(173)
Amount reclassified from AOCI(3)	(2)	—	—	(2)
Net other comprehensive income (loss) for 2015	(3)	1	(173)	(175)
December 31, 2015	\$ (1)	\$ 5	\$ (452)	\$ (448)
Other comprehensive income (loss) before reclassifications	—	—	(269)	(269)
Amount reclassified from AOCI(3)	1	—	—	1
Net other comprehensive income (loss) for 2016	1	—	(269)	(268)
December 31, 2016	\$ —	\$ 5	\$ (721)	\$ (716)

(1) All amounts are net of tax. The tax benefit (expense) was not material for 2016, 2015 and 2014.

(2) Amount for 2016 includes gains from a net investment hedge of \$14 million, net of tax of \$8 million. Amount for 2015 includes gains from a net investment hedge of \$19 million, net of tax of \$11 million.

(3) The pre-tax amount reclassified from AOCI was included in net gain (loss) on investments on the consolidated statements of income.

19. Capital Stock

The Company's authorized common stock and nonvoting participating preferred stock, \$0.01 par value, ("Preferred") consisted of the following:

	December 31, 2016	December 31, 2015
Common Stock	500,000,000	500,000,000
Nonvoting Participating Preferred Stock		
Series A Preferred	20,000,000	20,000,000
Series B Preferred	150,000,000	150,000,000
Series C Preferred	6,000,000	6,000,000
Series D Preferred	20,000,000	20,000,000

PNC Capital Contribution. During 2016, PNC surrendered to BlackRock 548,227 shares of BlackRock Series C Preferred to fund certain LTIP awards.

Cash Dividends for Common and Preferred Shares / RSUs. During 2016, 2015 and 2014, the Company paid cash dividends of \$9.16 per share (or \$1,545 million), \$8.72 per share (or \$1,476 million) and \$7.72 per share (or \$1,338 million), respectively.

Share Repurchases. The Company repurchased 3.3 million common shares in open market-transactions under its share repurchase program for \$1.1 billion during 2016. At December 31, 2016, there were 3 million shares still authorized to be repurchased.

The Company's common and preferred shares issued and outstanding and related activity consist of the following:

	Shares Issued				Shares Outstanding		
	Common Shares	Treasury Common Shares	Series B Preferred	Series C Preferred	Common Shares	Series B Preferred	Series C Preferred
December 31, 2013	171,252,185	(4,662,497)	823,188	1,311,887	166,589,688	823,188	1,311,887
Shares repurchased	—	(3,175,088)	—	—	(3,175,088)	—	—
Net issuance of common shares related to employee stock transactions	—	1,372,188	—	—	1,372,188	—	—
December 31, 2014	171,252,185	(6,465,397)	823,188	1,311,887	164,786,788	823,188	1,311,887
Shares repurchased	—	(3,080,689)	—	—	(3,080,689)	—	—
Net issuance of common shares related to employee stock transactions	—	1,754,965	—	—	1,754,965	—	—
December 31, 2015	171,252,185	(7,791,121)	823,188	1,311,887	163,461,064	823,188	1,311,887
Shares repurchased	—	(3,264,935)	—	—	(3,264,935)	—	—
Net issuance of common shares related to employee stock transactions	—	1,338,314	—	—	1,338,314	—	—
PNC LTIP capital contribution	—	—	—	(548,227)	—	—	(548,227)
December 31, 2016	171,252,185	(9,717,742)	823,188	763,660	161,534,443	823,188	763,660

20. Restructuring Charge

A restructuring charge of \$76 million (\$53 million after-tax), comprised of \$44 million of severance and \$32 million of expense related to the accelerated amortization of previously granted deferred cash and equity compensation awards, was recorded in the first quarter of 2016 in connection with a project to streamline and simplify the organization.

The following table presents a rollforward of the Company's restructuring liability for 2016, which is included within other liabilities on the consolidated statements of financial condition:

<i>(in millions)</i>	2016
Liability as of December 31, 2015	\$ —
Additions	76
Cash payments	(44)
Accelerated amortization expense of equity-based awards	(28)
Liability as of December 31, 2016	\$ 4

21. Income Taxes

The components of income tax expense for 2016, 2015 and 2014, are as follows:

<i>(in millions)</i>	2016	2015	2014
Current income tax expense:			
Federal	\$ 858	\$ 937	\$ 923
State and local	61	74	54
Foreign	385	395	258
Total net current income tax expense	1,304	1,406	1,235
Deferred income tax expense (benefit):			
Federal	31	(13)	(73)
State and local	14	(19)	(9)
Foreign	(59)	(124)	(22)
Total net deferred income tax expense (benefit)	(14)	(156)	(104)
Total income tax expense	\$ 1,290	\$ 1,250	\$ 1,131

Income tax expense has been based on the following components of income before taxes, less net income (loss) attributable to noncontrolling interests:

<i>(in millions)</i>	2016	2015	2014
Domestic	\$ 2,837	\$ 2,840	\$ 2,946
Foreign	1,625	1,755	1,479
Total	\$ 4,462	\$ 4,595	\$ 4,425

The foreign income before taxes includes countries that have statutory tax rates that are lower than the U.S. federal statutory tax rate of 35%, such as the United Kingdom, Channel Islands, Ireland and Canada.

A reconciliation of income tax expense with expected federal income tax expense computed at the applicable federal income tax rate of 35% is as follows:

<i>(in millions)</i>	2016	%	2015	%	2014	%
Statutory income tax expense	\$ 1,562	35 %	\$ 1,608	35 %	\$ 1,549	35 %
Increase (decrease) in income taxes resulting from:						
State and local taxes (net of federal benefit)	69	2	42	1	51	1
Impact of foreign, state, and local tax rate changes on deferred taxes	(33)	(1)	(45)	(1)	(4)	—
Effect of foreign tax rates	(329)	(7)	(385)	(8)	(434)	(10)
Other	21	—	30	—	(31)	—
Income tax expense	\$ 1,290	29 %	\$ 1,250	27 %	\$ 1,131	26 %

Deferred income taxes are provided for the effects of temporary differences between the tax basis of an asset or liability and its reported amount in the consolidated financial statements. These temporary differences result in taxable or deductible amounts in future years.

The components of deferred income tax assets and liabilities are shown below

(in millions)	December 31,	
	2016	2015
Deferred income tax assets:		
Compensation and benefits	\$ 399	\$ 372
Unrealized investment losses	42	114
Loss carryforwards	85	98
Foreign tax credit carryforwards	118	83
Other	216	235
Gross deferred tax assets	860	902
Less: deferred tax valuation allowances	(22)	(20)
Deferred tax assets net of valuation allowances	838	882
Deferred income tax liabilities:		
Goodwill and acquired indefinite-lived intangibles	5,568	5,588
Acquired finite-lived intangibles	36	45
Other	54	80
Gross deferred tax liabilities	5,658	5,713
Net deferred tax (liabilities)	\$ (4,820)	\$ (4,831)

Deferred income tax assets and liabilities are recorded net when related to the same tax jurisdiction. At December 31, 2016, the Company recorded on the consolidated statement of financial condition deferred income tax assets, within other assets, and deferred income tax liabilities of \$20 million and \$4,840 million, respectively. At December 31, 2015, the Company recorded on the consolidated statement of financial condition deferred income tax assets, within other assets, and deferred income tax liabilities of \$20 million and \$4,851 million, respectively.

During 2016, tax legislation enacted in the United Kingdom and domestic state and local tax changes resulted in a \$30 million net noncash benefit related to the revaluation of certain deferred income tax liabilities. During 2015, tax legislation enacted in the United Kingdom and domestic state and local tax changes resulted in a \$54 million net noncash benefit related to the revaluation of certain deferred income tax liabilities.

At December 31, 2016 and 2015, the Company had available state net operating loss carryforwards of \$1.6 billion and \$1.5 billion, respectively, which will begin to expire in 2017. At December 31, 2016 and 2015, the Company had foreign net operating loss carryforwards of \$90 million and \$135 million, respectively, of which \$3 million will begin to expire in 2021 and the balance will carry forward indefinitely. At December 31, 2016, the Company had foreign tax credit carryforwards for income tax purposes of \$118 million which will begin to expire in 2023.

At December 31, 2016 and 2015, the Company had \$22 million and \$20 million of valuation allowances for deferred income tax assets, respectively, recorded on the consolidated statements of financial condition. The year-over-year increase in the valuation allowance primarily related to the tax loss carryforwards.

Goodwill recorded in connection with the Quellos Transaction has been reduced during the period by the amount of tax benefit realized from tax-deductible goodwill. See Note 9, *Goodwill*, for further discussion.

Current income taxes are recorded net on the consolidated statements of financial condition when related to the same tax jurisdiction. At December 31, 2016, the Company had current income taxes receivable and payable of \$247 million and \$75 million, respectively, recorded in other assets and accounts payable and accrued liabilities, respectively. At December 31, 2015, the Company had current income taxes receivable and payable of \$166 million and \$79 million, respectively, recorded in other assets and accounts payable and accrued liabilities, respectively.

The Company does not provide deferred taxes on the excess of the financial reporting over tax basis on its investments in foreign subsidiaries that are essentially permanent in duration. The excess totaled \$5,251 million and \$4,734 million at December 31, 2016 and 2015, respectively. The determination of the additional deferred income taxes on the excess has not been provided because it is not practicable due to the complexities associated with its hypothetical calculation.

The following tabular reconciliation presents the total amounts of gross unrecognized tax benefits:

(in millions)	2016	2015	2014
Balance at January 1	\$ 466	\$ 379	\$ 467
Additions for tax positions of prior years	3	39	21
Reductions for tax positions of prior years	(78)	(25)	(24)
Additions based on tax positions related to current year	37	75	85
Lapse of statute of limitations	—	(2)	(2)
Settlements	(18)	—	(168)
Balance at December 31	\$ 410	\$ 466	\$ 379

Included in the balance of unrecognized tax benefits at December 31, 2016, 2015 and 2014, respectively, are \$284 million, \$320 million and \$283 million of tax benefits that, if recognized, would affect the effective tax rate.

The Company recognizes interest and penalties related to income tax matters as a component of income tax expense. Related to the unrecognized tax benefits noted above, the Company accrued interest and penalties of \$3 million during 2016 and in total, as of December 31, 2016, had recognized a liability for interest and penalties of \$59 million. The Company accrued interest and penalties of \$12 million during 2015 and in total, as of December 31, 2015, had recognized a liability for interest and penalties of \$56 million. The Company accrued interest and penalties of \$(25) million during 2014 and in total, as of December 31, 2014, had recognized a liability for interest and penalties of \$44 million.

BlackRock is subject to U.S. federal income tax, state and local income tax, and foreign income tax in multiple jurisdictions. Tax years after 2009 remain open to U.S. federal income tax examination.

In June 2014, the IRS commenced its examination of BlackRock's 2010 through 2012 tax years, and while the impact on the consolidated financial statements is undetermined, it is not expected to be material.

The Company is currently under audit in several state and local jurisdictions. The significant state and local income tax examinations are in New York State and New York City for tax years 2009 through 2011, and California for tax years 2013 through 2014. No state and local income tax audits cover years earlier than 2008. No state and local income tax audits are expected to result in an assessment material to BlackRock's consolidated financial statements.

Her Majesty's Revenue and Customs' United Kingdom income tax audit for various U.K. BlackRock subsidiaries is in progress for tax years 2009 and years after. BlackRock does not expect the audit to result in a material impact to the consolidated financial statements.

From time to time, BlackRock may receive or be subject to tax authorities' assessments and challenges related to income taxes. BlackRock does not currently expect the ultimate resolution of any existing matters to be material to the consolidated financial statements.

At December 31, 2016, it is reasonably possible the total amounts of unrecognized tax benefits will change within the next twelve months due to completion of tax authorities' exams or the expiration of statutes of limitations. Management estimates that the existing liability for uncertain tax positions could decrease by approximately \$10 million to \$40 million within the next twelve months.

22. Earnings Per Share

The following table sets forth the computation of basic and diluted EPS for 2016, 2015 and 2014 under the treasury stock method:

<i>(in millions, except shares and per share data)</i>	2016	2015	2014
Net income attributable to BlackRock	\$ 3,172	\$ 3,345	\$ 3,294
Basic weighted-average shares outstanding	164,425,858	166,390,009	168,225,154
Dilutive effect of nonparticipating RSUs and stock options	2,153,894	2,648,562	2,887,107
Total diluted weighted-average shares outstanding	166,579,752	169,038,571	171,112,261
Basic earnings per share	\$ 19.29	\$ 20.10	\$ 19.58
Diluted earnings per share	\$ 19.04	\$ 19.79	\$ 19.25

There were no anti-dilutive RSUs for 2015. Amounts of anti-dilutive RSUs for 2016 and 2014 were immaterial. In addition, there were no anti-dilutive stock options for 2016, 2015 and 2014.

23. Segment Information

The Company's management directs BlackRock's operations as one business, the asset management business. The Company utilizes a consolidated approach to assess performance and allocate resources. As such, the Company operates in one business segment as defined in ASC 280-10.

The following table illustrates investment advisory, administration fees, securities lending revenue and performance fees by product type, *BlackRock Solutions* and advisory revenue, distribution fees and other revenue for 2016, 2015 and 2014.

<i>(in millions)</i>	2016	2015	2014
Equity	\$ 5,018	\$ 5,345	\$ 5,337
Fixed income	2,664	2,428	2,171
Multi-asset	1,157	1,287	1,236
Alternatives	878	1,082	1,103
Cash management	458	319	292
Total investment advisory, administration fees, securities lending revenue and performance fees	10,175	10,461	10,139
<i>BlackRock Solutions</i> and advisory	714	646	635
Distribution fees	41	55	70
Other revenue	225	239	237
Total revenue	\$ 11,155	\$ 11,401	\$ 11,081

The following table illustrates total revenue for 2016, 2015 and 2014 by geographic region. These amounts are aggregated on a legal entity basis and do not necessarily reflect where the customer resides.

<i>(in millions)</i>	2016	2015	2014
Revenue			
Americas	\$ 7,530	\$ 7,502	\$ 7,286
Europe	3,083	3,356	3,246
Asia-Pacific	542	543	549
Total revenue	\$ 11,155	\$ 11,401	\$ 11,081

The following table illustrates long-lived assets that consist of goodwill and property and equipment at December 31, 2016 and 2015 by geographic region. These amounts are aggregated on a legal entity basis and do not necessarily reflect where the asset is physically located.

(in millions)

Long-lived Assets	2016	2015
Americas	\$ 13,424	\$ 13,422
Europe	163	186
Asia-Pacific	90	96
Total long-lived assets	\$ 13,677	\$ 13,704

Americas primarily is comprised of the United States and Canada, while Europe primarily is comprised of the United Kingdom and Luxembourg. Asia-Pacific primarily is comprised of Hong Kong, Australia, Japan and Singapore.

24. Selected Quarterly Financial Data (unaudited)

(in millions, except shares and per share data)

2016	1st Quarter(1)(2)	2nd Quarter	3rd Quarter(3)	4th Quarter(4)
Revenue	\$ 2,624	\$ 2,804	\$ 2,837	\$ 2,890
Operating income	\$ 963	\$ 1,173	\$ 1,209	\$ 1,225
Net income	\$ 647	\$ 795	\$ 877	\$ 851
Net income attributable to BlackRock	\$ 657	\$ 789	\$ 875	\$ 851
Earnings per share attributable to BlackRock, Inc. common stockholders:				
Basic	\$ 3.97	\$ 4.79	\$ 5.33	\$ 5.21
Diluted	\$ 3.92	\$ 4.73	\$ 5.26	\$ 5.13
Weighted-average common shares outstanding:				
Basic	165,388,130	164,758,612	164,129,214	163,441,552
Diluted	167,398,938	166,639,290	166,256,598	165,854,167
Dividend declared per share	\$ 2.29	\$ 2.29	\$ 2.29	\$ 2.29
Common stock price per share:				
High	\$ 342.56	\$ 367.47	\$ 376.00	\$ 398.45
Low	\$ 289.72	\$ 319.54	\$ 335.11	\$ 338.61
Close	\$ 340.57	\$ 342.53	\$ 362.46	\$ 380.54
2015				
Revenue	\$ 2,723	\$ 2,905	\$ 2,910	\$ 2,863
Operating income	\$ 1,067	\$ 1,238	\$ 1,222	\$ 1,137
Net income(5)	\$ 825	\$ 826	\$ 832	\$ 869
Net income attributable to BlackRock	\$ 822	\$ 819	\$ 843	\$ 861
Earnings per share attributable to BlackRock, Inc. common stockholders:				
Basic	\$ 4.92	\$ 4.92	\$ 5.08	\$ 5.19
Diluted	\$ 4.84	\$ 4.84	\$ 5.00	\$ 5.11
Weighted-average common shares outstanding:				
Basic	167,089,037	166,616,558	166,045,291	165,826,808
Diluted	169,723,167	169,114,759	168,665,303	168,632,558
Dividend declared per share	\$ 2.18	\$ 2.18	\$ 2.18	\$ 2.18
Common stock price per share:				
High	\$ 380.33	\$ 377.85	\$ 354.54	\$ 363.72
Low	\$ 340.51	\$ 344.54	\$ 293.52	\$ 295.92
Close	\$ 365.84	\$ 345.98	\$ 297.47	\$ 340.52

(1) The first quarter of 2016 included a pre-tax restructuring charge of \$76 million.

(2) The first quarter of 2015 included nonrecurring tax benefits of \$69 million, primarily due to the realization of losses from changes in the Company's organizational tax structure and the resolution of certain outstanding tax matters.

(3) The third quarter of 2016 included a \$26 million net noncash tax benefit, primarily related to the revaluation of certain deferred income tax liabilities as a result of legislation enacted in the United Kingdom, and domestic state and local changes.

(4) The fourth quarter of 2015 included a \$64 million noncash tax benefit, primarily related to the revaluation of certain deferred income tax liabilities, including the effect of tax legislation enacted in the United Kingdom.

(5) During the second quarter of 2015, the company adopted new accounting guidance on consolidations effective January 1, 2015 using the modified retrospective method. Upon adoption, the Company recorded a change to total nonoperating income (expense) with an equal and offsetting charge to noncontrolling interest for the three months ended March 31, 2015. There was no impact to net income attributable to BlackRock, Inc. or BlackRock's earnings per share.

25 . Subsequent Events

In February 2017, the Company announced that it has entered an agreement to acquire the First Reserve Energy Infrastructure business, the equity infrastructure franchise of First Reserve. Consideration for the transaction will include an upfront payment and contingent consideration. The transaction is expected to close in the first half of 2017, subject to customary regulatory approvals and closing conditions. This transaction is not expected to be material to the Company's consolidated financial condition or results of operations.

In January 2017, the Board of Directors authorized the repurchase of an additional 6 million shares under the Company's existing share repurchase program for a total of up to 9 million shares of BlackRock common stock.

On January 12, 2017, the Board of Directors approved BlackRock's quarterly dividend of \$2.50 to be paid on March 23, 2017 to stockholders of record at the close of business on March 6, 2017.

The Company conducted a review for additional subsequent events and determined that no subsequent events had occurred that would require accrual or additional disclosures.