

STATE STREET CORP

Form 10-Q

May 01, 2019

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**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION
Washington, DC 20549
Form 10-Q**

**QUARTERLY REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE
ACT OF 1934**

For the quarterly period ended March 31, 2019

**OR
TRANSITION REPORT PURSUANT TO SECTION 13 OR 15(d) OF THE SECURITIES EXCHANGE ACT
OF 1934**

**For the transition period from _____ to _____
Commission File No. 001-07511**

STATE STREET CORPORATION

(Exact name of registrant as specified in its charter)

Massachusetts 04-2456637
(State or other jurisdiction of incorporation) (I.R.S. Employer Identification No.)
One Lincoln Street 02111
Boston, Massachusetts
(Address of principal executive office) (Zip Code)
617-786-3000
(Registrant's telephone number, including area code)

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

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Indicate by check mark whether the registrant has submitted electronically every Interactive Data File required to be submitted 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 such files). Yes No

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

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

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided pursuant to Section 13(a) of the Exchange Act.

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

The number of shares of the registrant's common stock outstanding as of April 29, 2019 was 373,163,922.

STATE STREET CORPORATION
QUARTERLY REPORT ON FORM 10-Q FOR THE QUARTERLY PERIOD ENDED
March 31, 2019

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**STATE STREET CORPORATION
MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION
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We use acronyms and other defined terms for certain business terms and abbreviations, as defined on the acronyms list and glossary following the consolidated financial statements in this Form 10-Q.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

GENERAL

State Street Corporation, referred to as the Parent Company, is a financial holding company organized in 1969 under the laws of the Commonwealth of Massachusetts. Our executive offices are located at One Lincoln Street, Boston, Massachusetts 02111 (telephone (617) 786-3000). For purposes of this Quarterly Report on Form 10-Q for the quarter ended March 31, 2019 (Form 10-Q), unless the context requires otherwise, references to "State Street," "we," "us," "our" or similar terms mean State Street Corporation and its subsidiaries on a consolidated basis. The Parent Company is a source of financial and managerial strength to our subsidiaries. Through our subsidiaries, including our principal banking subsidiary, State Street Bank and Trust Company, referred to as State Street Bank, we provide a broad range of financial products and services to institutional investors worldwide, with \$32.64 trillion of AUC/A and \$2.81 trillion of AUM as of March 31, 2019.

As of March 31, 2019, we had consolidated total assets of \$228.33 billion, consolidated total deposits of \$162.47 billion, consolidated total shareholders' equity of \$25.04 billion and 39,969 employees. We operate in more than 100 geographic markets worldwide, including in the U.S., Canada, Europe, the Middle East and Asia.

Our operations are organized into two lines of business, Investment Servicing and Investment Management, which are defined based on products and services provided.

Additional information about our lines of business is provided in Line of Business Information in this Management's Discussion and Analysis and Note 18 to the consolidated financial statements in this Form 10-Q.

This Management's Discussion and Analysis is part of the Form 10-Q and updates the Management's Discussion and Analysis in our 2018 Annual Report on Form 10-K previously filed with the SEC (2018 Form 10-K). You should read the financial information contained in this Management's Discussion and Analysis and elsewhere in this Form 10-Q in conjunction with the financial and other information contained in our 2018 Form 10-K. Certain previously reported amounts presented in this Form 10-Q have been reclassified to conform to current-period presentation.

We prepare our consolidated financial statements in conformity with U.S. GAAP. The preparation of financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions in its application of certain accounting policies that materially affect the reported amounts of assets, liabilities, equity, revenue and expenses.

The significant accounting policies that require us to make judgments, estimates and assumptions that

are difficult, subjective or complex about matters that are uncertain and may change in subsequent periods include:

- accounting for fair value measurements;
- OTTI of investment securities;
- impairment of goodwill and other intangible assets; and
- contingencies.

These significant accounting policies require the most subjective or complex judgments, and underlying estimates and assumptions could be subject to revision as new information becomes available. For additional information about these significant accounting policies refer to pages 115 to 116, "Significant Accounting Estimates" included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, in our 2018 Form 10-K. We did not change these significant accounting policies in the first three months of 2019.

Certain financial information provided in this Form 10-Q, including in this Management's Discussion and Analysis, is prepared on both a U.S. GAAP, or reported basis, and a non-GAAP basis, including certain

non-GAAP measures used in the calculation of identified regulatory ratios. We measure and compare certain financial information on a non-GAAP basis, including information (such as capital ratios calculated under regulatory standards then scheduled to be effective in the future) that management uses in evaluating our business and activities.

Non-GAAP financial information should be considered in addition to, and not as a substitute for or superior to, financial information prepared in conformity with U.S. GAAP. Any non-GAAP financial information presented in this Form 10-Q, including this Management's Discussion and Analysis, is reconciled to its most directly comparable then currently applicable regulatory ratio or U.S. GAAP-basis measure.

We further believe that our presentation of FTE NII, a non-GAAP measure, which reports non-taxable revenue, such as interest income associated with tax-exempt investment securities, on a FTE basis, facilitates an investor's understanding and analysis of our underlying financial performance and trends.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

We provide additional disclosures required by applicable bank regulatory standards, including supplemental qualitative and quantitative information with respect to regulatory capital (including market risk associated with our trading activities) and the LCR, summary results of semi-annual State Street-run stress tests which we conduct under the Dodd-Frank Act, and resolution plan disclosures required under the Dodd-Frank Act. These additional disclosures are accessible on the "Investor Relations" section of our corporate website at www.statestreet.com.

We have included our website address in this report as an inactive textual reference only. Information on our website is not incorporated by reference into this Form 10-Q.

We use acronyms and other defined terms for certain business terms and abbreviations, as defined in the acronyms list and glossary following the consolidated financial statements in this Form 10-Q.

Forward-Looking Statements

This Form 10-Q, as well as other reports and proxy materials submitted by us under the Securities Exchange Act of 1934, registration statements filed by us under the Securities Act of 1933, our annual report to shareholders and other public statements we may make, may contain statements (including statements in our Management's Discussion and Analysis included in such reports, as applicable) that are considered "forward-looking statements" within the meaning of U.S. securities laws, including statements about our goals and expectations regarding our business, financial and capital condition, results of operations, strategies, cost savings and transformation initiatives, investment portfolio performance, dividend and stock purchase programs, outcomes of legal proceedings, market growth, acquisitions, joint ventures and divestitures, client growth and new technologies, services and opportunities, as well as industry, governmental, regulatory, economic and market trends, initiatives and developments, the business environment and other matters that do not relate strictly to historical facts.

Terminology such as "plan," "expect," "intend," "objective," "forecast," "outlook," "believe," "priority," "anticipate," "estimate," "seek," "may," "will," "trend," "target," "strategy" and "goal," or similar statements or variations of such terms, are intended to identify forward-looking statements, although not all forward-looking statements contain such terms.

Forward-looking statements are subject to various risks and uncertainties, which change over time, are based on management's expectations and assumptions at the time the statements are made, and are not guarantees of future results. Management's expectations and assumptions, and the continued validity of the forward-looking statements, are subject

to change due to a broad range of factors affecting the U.S. and global economies, regulatory environment and the equity, debt, currency and other financial markets, as well as factors specific to State Street and its subsidiaries, including State Street Bank. Factors that could cause changes in the expectations or assumptions on which forward-looking statements are based cannot be foreseen with certainty and include, but are not limited to:

the financial strength of the counterparties with which we or our clients do business and to which we have investment, credit or financial exposures or to which our clients have such exposures as a result of our acting as agent, including as an asset manager or securities lending agent; increases in the volatility of, or declines in the level of, our NII; changes in the composition or valuation of the assets recorded in our consolidated statement of condition (and our ability to measure the fair value of investment securities); and changes in the manner in which we fund those assets; the volatility of servicing fee, management fee, trading fee and securities finance revenues due to, among other factors, the value of equity and fixed-income markets, market interest and FX rates, the volume of client transaction activity, competitive pressures in the investment servicing and asset management industries, and the timing of revenue recognition with respect to processing fees and other revenues;

the liquidity of the U.S. and international securities markets, particularly the markets for fixed-income securities and inter-bank credits; the liquidity of the assets on our balance sheet and changes or volatility in the sources of such funding, particularly the deposits of our clients; and demands upon our liquidity, including the liquidity demands and requirements of our clients;

the level and volatility of interest rates, the valuation of the U.S. dollar relative to other currencies in which we record revenue or accrue expenses and the performance and volatility of securities, credit, currency and other markets in the U.S. and internationally; and the impact of monetary and fiscal policy in the U.S. and internationally on prevailing rates of interest and currency exchange rates in the markets in which we provide services to our clients;

the credit quality, credit-agency ratings and fair values of the securities in our investment securities portfolio, a deterioration or downgrade of which could lead to OTTI of such securities and the recognition of an impairment loss in our consolidated statement of income;

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

our ability to attract deposits and other low-cost, short-term funding; our ability to manage the level and pricing of such deposits and the relative portion of our deposits that are determined to be operational under regulatory guidelines; and our ability to deploy deposits in a profitable manner consistent with our liquidity needs, regulatory requirements and risk profile;

the manner and timing with which the Federal Reserve and other U.S. and non-U.S. regulators implement or reevaluate the regulatory framework applicable to our operations (as well as changes to that framework), including implementation or modification of the Dodd-Frank Act and related stress testing and resolution planning requirements and implementation of international standards applicable to financial institutions, such as those proposed by the Basel Committee and European legislation (such as Undertakings for Collective Investments in Transferable Securities (UCITS) V, the Money Market Fund Regulation and the Markets in Financial Instruments Directive (MiFID II)/Markets in Financial Instruments Regulation (MiFIR)); among other consequences, these regulatory changes impact the levels of regulatory capital, long-term debt and liquidity we must maintain, acceptable levels of credit exposure to third parties, margin requirements applicable to derivatives, restrictions on banking and financial activities and the manner in which we structure and implement our global operations and servicing relationships. In addition, our regulatory posture and related expenses have been and will continue to be affected by heightened standards and changes in regulatory expectations for global systemically important financial institutions applicable to, among other things, risk management, liquidity and capital planning, resolution planning and compliance programs, as well as changes in governmental enforcement approaches to perceived failures to comply with regulatory or legal obligations;

adverse changes in the regulatory ratios that we are, or will be, required to meet, whether arising under the Dodd-Frank Act or implementation of international standards applicable to financial institutions, such as those proposed by the Basel Committee, or due to changes in regulatory positions, practices or regulations in jurisdictions in which we engage in banking activities, including changes in internal or external data, formulae, models, assumptions or other advanced systems used in the calculation of our capital or liquidity ratios that cause changes in those ratios as they are measured from period to period;

requirements to obtain the prior approval or non-objection of the Federal Reserve or other U.S. and non-U.S. regulators for the use, allocation or distribution of our capital or other specific capital actions or corporate activities, including, without limitation, acquisitions, investments in subsidiaries, dividends and stock repurchases, without which our growth plans, distributions to shareholders, share repurchase programs or other capital or corporate initiatives may be restricted;

changes in law or regulation, or the enforcement of law or regulation, that may adversely affect our business activities or those of our clients or our counterparties, and the products or services that we sell, including, without limitation, additional or increased taxes or assessments thereon, capital adequacy requirements, margin requirements and changes that expose us to risks related to the adequacy of our controls or compliance programs;

economic or financial market disruptions in the U.S. or internationally, including those which may result from recessions or political instability; for example, the U.K.'s exit from the European Union or actual or potential changes in trade policy, such as tariffs or bilateral and multilateral trade agreements;

our ability to create cost efficiencies through changes in our operational processes and to further digitize our processes and interfaces with our clients, any failure of which, in whole or in part, may among other things, reduce our competitive position, diminish the cost-effectiveness of our systems and processes or provide an insufficient return on our associated investment;

our ability to promote a strong culture of risk management, operating controls, compliance oversight, ethical behavior and governance that meets our expectations and those of our clients and our regulators,

and the financial, regulatory, reputational and other consequences of our failure to meet such expectations; the impact on our compliance and controls enhancement programs associated with the appointment of a monitor under the deferred prosecution agreement with the DOJ and compliance consultant appointed under a settlement with the SEC, including the potential for such monitor and compliance consultant to require changes to our programs or to identify other issues that require substantial expenditures, changes in our operations, payments to clients or reporting to U.S. authorities; the results of our review of our billing practices, including additional findings or amounts we may be required to reimburse clients, as well as

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

potential consequences of such review, including damage to our client relationships or our reputation and adverse actions or penalties imposed by governmental authorities;

our ability to expand our use of technology to enhance the efficiency, accuracy and reliability of our operations and our dependencies on information technology; to replace and consolidate systems, particularly those relying upon older technology, and to adequately incorporate resiliency and business continuity into our systems management; to implement robust management processes into our technology development and maintenance programs; and to control risks related to use of technology, including cyber-crime and inadvertent data disclosures;

our ability to address threats to our information technology infrastructure and systems (including those of our third-party service providers); the effectiveness of our and our third party service providers' efforts to manage the resiliency of the systems on which we rely; controls regarding the access to, and integrity of, our and our clients' data; and complexities and costs of protecting the security of such systems and data; the results of, and costs associated with, governmental or regulatory inquiries and investigations, litigation and similar claims, disputes, or civil or criminal proceedings;

changes or potential changes in the amount of compensation we receive from clients for our services, and the mix of services provided by us that clients choose;

the large institutional clients on which we focus are often able to exert considerable market influence and have diverse investment activities, and this, combined with strong competitive market forces, subjects us to significant pressure to reduce the fees we charge, to potentially significant changes in our AUC/A or our AUM in the event of the acquisition or loss of a client, in whole or in part, and to potentially significant changes in our revenue in the event a client re-balances or changes its investment approach, re-directs assets to lower- or higher-fee asset classes or changes the mix of products or services that it receives from us;

the potential for losses arising from our investments in sponsored investment funds;

the possibility that our clients will incur substantial losses in investment pools for which we act as agent; the possibility of significant reductions in the liquidity or valuation of assets underlying those pools and the potential that clients will seek to hold us liable for such losses; and the possibility that our clients or regulators will assert claims that our fees, with respect to such investment products, are not appropriate;

our ability to anticipate and manage the level and timing of redemptions and withdrawals from our collateral pools and other collective investment products;

the credit agency ratings of our debt and depositary obligations and investor and client perceptions of our financial strength;

adverse publicity, whether specific to us or regarding other industry participants or industry-wide factors, or other reputational harm;

our ability to control operational risks, data security breach risks and outsourcing risks; our ability to protect our intellectual property rights; the possibility of errors in the quantitative models we use to manage our business; and the possibility that our controls will prove insufficient, fail or be circumvented;

changes or potential changes to the competitive environment, due to, among other things, regulatory and technological changes, the effects of industry consolidation and perceptions of us, as a suitable service provider or counterparty;

our ability to complete acquisitions, joint ventures and divestitures, including, without limitation, our ability to obtain regulatory approvals, the ability to arrange financing as required and the ability to satisfy closing conditions;

the risks that our acquired businesses, including, without limitation, our acquisition of Charles River Systems, Inc. (CRD), and joint ventures will not achieve their anticipated financial, operational and product

innovation benefits or will not be integrated successfully, or that the integration will take longer than anticipated; that expected synergies will not be achieved or unexpected negative synergies or liabilities will be experienced; that client and deposit retention goals will not be met; that other regulatory or operational challenges will be experienced; and that disruptions from the transaction will harm our relationships with our clients, our employees or regulators;

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**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION
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our ability to integrate CRD's front office software solutions with our middle and back office capabilities to develop a front-to-middle-to-back office platform that is competitive, generates revenues in line with our expectations and meets our clients' requirements;

our ability to recognize evolving needs of our clients and to develop products that are responsive to such trends and profitable to us; the performance of and demand for the products and services we offer; and the potential for new products and services to impose additional costs on us and expose us to increased operational risk;

our ability to grow revenue, manage expenses, attract and retain highly skilled people and raise the capital necessary to achieve our business goals and comply with regulatory requirements and expectations;

changes in accounting standards and practices; and

the impact of the U.S. tax legislation enacted in 2017, and changes in tax legislation and in the interpretation of existing tax laws by U.S. and non-U.S. tax authorities that affect the amount of taxes due.

Actual outcomes and results may differ materially from what is expressed in our forward-looking statements and from our historical financial results due to the factors discussed in this section and elsewhere in this Form 10-Q or disclosed in our other SEC filings. Forward-looking statements in this Form 10-Q should not be relied on as representing our expectations or assumptions as of any time subsequent to the time this Form 10-Q is filed with the SEC. We undertake no obligation to revise our forward-looking statements after the time they are made. The factors discussed herein are not intended to be a complete statement of all risks and uncertainties that may affect our businesses. We cannot anticipate all developments that may adversely affect our business or operations or our consolidated results of operations, financial condition or cash flows.

Forward-looking statements should not be viewed as predictions, and should not be the primary basis on which investors evaluate State Street. Any investor in State Street should consider all risks and uncertainties disclosed in our SEC filings, including our filings under the Securities Exchange Act of 1934, in particular our annual reports on Form 10-K, our quarterly reports on Form 10-Q and our current reports on Form 8-K, or registration statements filed under the Securities Act of 1933, all of which are accessible on the SEC's website at www.sec.gov or on the "Investor Relations" section of our corporate website at www.statestreet.com.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****OVERVIEW OF FINANCIAL RESULTS**

In the first quarter of 2019, we voluntarily changed our accounting method under Financial Accounting Standards Board (FASB) ASC 323, *Investments-Equity Method and Joint Ventures*, for investments in Low Income Housing Tax Credit (LIHTC) from the equity method of accounting to the proportional amortization method of accounting. The change was applied retrospectively and affects multiple financial statement line items. For additional information about changes in accounting, refer to Note 1 of our consolidated financial statements in this Form 10-Q.

TABLE 1: OVERVIEW OF FINANCIAL RESULTS

(Dollars in millions, except per share amounts)	Three Months Ended March 31,		
	2019	2018	% Change
Total fee revenue ⁽¹⁾⁽²⁾	\$2,260	\$2,415	(6)%
Net interest income ⁽¹⁾	673	643	5
Gains (losses) related to investment securities, net	(1)	(2)	nm
Total revenue ⁽²⁾	2,932	3,056	(4)
Provision for loan losses	4	—	nm
Total expenses ⁽²⁾	2,293	2,268	1
Income before income tax expense	635	788	(19)
Income tax expense	127	129	(2)
Net income	\$508	\$659	(23)
Adjustments to net income:			
Dividends on preferred stock ⁽³⁾	\$(55)	\$(55)	—
Earnings allocated to participating securities ⁽⁴⁾	(1)	(1)	—
Net income available to common shareholders	\$452	\$603	(25)
Earnings per common share:			
Basic	\$1.20	\$1.64	(27)
Diluted	1.18	1.62	(27)
Average common shares outstanding (in thousands):			
Basic	377,915	367,439	3
Diluted	381,703	372,619	2
Cash dividends declared per common share	\$0.47	\$0.42	12
Return on average common equity	8.7%	12.8%	(410) bps
Pre-tax Margin	21.7	25.8	(410)

(1) In the first quarter of 2018, approximately \$15 million of swap costs were reclassified from processing fees and other revenue within fee revenue to net interest income to conform to current presentation.

(2) CRD contributed approximately \$99 million and \$41 million in total revenue and total expenses, respectively, in the first quarter of 2019, including approximately \$95 million in processing fees and other revenue and \$4 million in brokerage and other trading services, within foreign exchange trading services, and expenses contributed approximately \$31 million in compensation and employee benefits and \$10 million in other expense lines. In addition, CRD-related expenses in the first quarter of 2019 include \$15 million in amortization of other intangible assets.

(3) Additional information about our preferred stock dividends is provided in Note 12 to the consolidated financial statements in this Form 10-Q.

(4) Represents the portion of net income available to common equity allocated to participating securities, composed of unvested and fully vested SERP (Supplemental executive retirement plans) shares and fully vested deferred director stock awards, which are equity-based awards that contain non-forfeitable rights to dividends, and are considered to participate with the common stock in undistributed earnings.
nm Not meaningful

The following "Financial Results and Highlights" section provides information related to significant events, as well as highlights of our consolidated financial results in the first quarter of 2019 presented in Table 1: Overview of Financial Results. More detailed information about our consolidated financial results, including

comparisons of our financial results in the first quarter of 2019 compared to the same period in 2018, is provided under "Consolidated Results of Operations", "Line of Business Information" and "Capital" which follows these sections, as well as in our consolidated financial statements in this Form 10-Q. In this Management's Discussion and Analysis, where we describe the effects of changes in FX rates, those effects are determined by applying applicable weighted average FX rates from the relevant 2018 period to the relevant 2019 period results.

Financial Results and Highlights

• EPS of \$1.18 in the first quarter of 2019 decreased 27% compared to \$1.62 in the same period in 2018.

• The first quarter of 2019 includes the impact of the following notable items:

• Acquisition and restructuring costs of \$9 million, consisting of acquisition costs related to CRD of \$13 million, partially offset by a \$4 million accrual release for restructuring; and

• Legal and related expenses of approximately \$14 million.

• We had no notable items in the first quarter of 2018.

In the first quarter of 2019, revenues were impacted by challenging industry conditions and lower average equity market levels, partially offset by CRD revenue and NII. In light of challenging market and industry headwinds, we are executing on our previously announced expense savings program.

• In the first quarter of 2019, return on equity of 8.7% decreased from 12.8% in the same period in 2018.

• Pre-tax margin of 21.7% in the first quarter of 2019 decreased from 25.8% in the same period in 2018.

• Operating leverage was (5.2)% in the first quarter of 2019. Operating leverage represents the difference between the percentage change in total revenue and the percentage change in total expenses, in each case relative to the prior year period.

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We repurchased \$300 million of our common stock in the first quarter of 2019 under our previously announced common stock purchase program (the 2018 Program). We may repurchase up to \$300 million of our common stock under the 2018 Program in the second quarter of 2019.

Revenue

Total revenue and fee revenue decreased 4% and 6%, respectively, in the first quarter of 2019 compared to the same period of 2018, primarily driven by lower servicing fees, lower management fees, and lower markets revenues, partially offset by higher processing fees and other revenues, and, in the case of total revenue, by higher NII. Processing fees and other revenues in the first quarter of 2019 include revenue from CRD, which we acquired in October 2018.

Total revenues contributed by CRD in the first quarter of 2019 were approximately \$99 million, including \$95 million in processing fees and other revenue, of which approximately \$3 million were project-related fees associated with State Street Global Advisors, and \$4 million in brokerage and other trading services, within foreign exchange trading services.

Servicing fee revenue decreased 12% in the first quarter of 2019 compared to the same period in 2018, primarily due to challenging industry conditions including fee concessions, lower client activity and flows, weaker average equity market levels and a previously announced client transition, partially offset by new business.

Management fee revenue decreased 11% in the first quarter of 2019 compared to the same period in 2018, reflecting product mix and weaker average equity market levels.

Foreign exchange trading services decreased 8% in the first quarter of 2019 compared to the same period in 2018 due to lower client volumes and market volatility.

Securities finance revenue decreased 16% in the first quarter of 2019 compared to the same period in 2018, reflecting a balance sheet repositioning initiative in the second half of 2018.

Processing fees and other revenue increased 148% in the first quarter of 2019 compared to the same period in 2018, primarily due to \$95 million in the first quarter of 2019 from CRD, which we acquired in October 2018.

NII increased 5% in the first quarter of 2019 compared to the same period in 2018, primarily due to higher U.S. interest rates and disciplined liability pricing, partially offset by lower average deposit balances.

Expenses

Total expenses increased 1% in the first quarter of 2019 compared to the same period in 2018, primarily driven by technology infrastructure spend and the impact of the CRD acquisition, partially offset by savings associated with our 2019 expense savings program through resource discipline, process re-engineering and automation benefits.

Total expenses contributed by CRD in the first quarter of 2019 were approximately \$41 million, including \$31 million in compensation and employee benefits, and \$10 million in other expense lines. In addition, CRD-related expenses in the first quarter of 2019 included \$15 million in amortization of other intangible assets.

In the first quarter of 2019, we achieved approximately \$78 million of gross expense savings related to our previously announced \$350 million 2019 expense savings program through expense savings of \$31 million in resource discipline and \$47 million in process re-engineering and automation benefits.

AUC/A and AUM

AUC/A decreased 2% as of March 31, 2019 compared to March 31, 2018, primarily due to the negative impact of FX translation and a previously announced client transition. In the first quarter of 2019, newly announced asset servicing mandates totaled approximately \$120 billion. Servicing assets remaining to be installed in future periods totaled approximately \$310 billion as of March 31, 2019.

AUM increased 3% as of March 31, 2019 compared to March 31, 2018, primarily driven by higher equity markets, growth from institutional and ETF inflows, partially offset by year-end cash outflows.

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In the first quarter of 2019, we returned a total of approximately \$480 million to our shareholders in the form of common stock dividends and share purchases.

We declared aggregate common stock dividends of \$0.47 per share, totaling \$177 million in the first quarter of 2019, compared to \$0.42 per share, totaling \$154 million in the first quarter of 2018, representing an increase of approximately 12% on a per share basis.

In the first quarter of 2019, we acquired 4.2 million shares of common stock at an average per share cost of \$70.93 and an aggregate cost of approximately \$300 million under the 2018 Program.

Our standardized CET1 capital ratio decreased to 11.5% as of March 31, 2019 compared to 11.7% as of December 31, 2018, and Tier 1 leverage ratio increased to 7.4% as of March 31, 2019 compared to 7.2% as of December 31, 2018.

CONSOLIDATED RESULTS OF OPERATIONS

This section discusses our consolidated results of operations in the first quarter of 2019 compared to the same period in 2018, and should be read in conjunction with the consolidated financial statements and accompanying condensed notes to the consolidated financial statements in this Form 10-Q.

Total Revenue**TABLE 2: TOTAL REVENUE**

(Dollars in millions)	Three Months Ended March 31,		
	2019	2018	% Change
Fee revenue:			
Servicing fees	\$1,251	\$1,421	(12)%
Management fees	420	472	(11)
Foreign exchange trading services ⁽¹⁾	280	304	(8)
Securities finance	118	141	(16)
Processing fees and other ⁽¹⁾	191	77	148
Total fee revenue ⁽¹⁾	2,260	2,415	(6)
Net interest income:			
Interest income	1,027	857	20
Interest expense	354	214	65
Net interest income	673	643	5
Gains (losses) related to investment securities, net	(1)	(2)	nm
Total revenue ⁽¹⁾	\$2,932	\$3,056	(4)

⁽¹⁾ CRD contributed approximately \$99 million in total revenue for the first quarter of 2019, including approximately \$95 million in processing fees and other revenue and \$4 million in brokerage and other trading services within foreign exchange trading services.
nm Not meaningful

Fee Revenue

Table 2: Total Revenue, provides the breakout of fee revenue in the first quarters of 2019 and 2018.

Servicing and management fees collectively made up approximately 74% of the total fee revenue in both the first quarter of 2019 and 2018.

Servicing Fee Revenue

Generally, our servicing fee revenues are affected by several factors including changes in market valuations, client activity and asset flows, net new business and the manner in which we price our services.

We provide a range of services to our clients, including core custody services, accounting, reporting and administration and middle office services, and the nature and mix of services provided affects our servicing fees. The basis for fees will differ across regions and clients. On average and over time, approximately 55% of our servicing fee revenues have been variable due to changes in asset valuations including changes in daily average valuations of AUC/A; another 15% of our servicing fees are impacted by the volume of activity in the funds we serve; and the remaining 30% of our servicing fees tend not to be variable in nature nor impacted by market fluctuations or values.

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Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS***Changes in Market Valuations*

Our servicing fee revenue is impacted by both our levels of and the geographic and product mix of our AUC/A. Increases or decreases in market valuations have a corresponding impact on the level of our AUC/A and servicing fee revenues, though the degree of impact will vary depending on asset types and classes and geography of assets held within our clients' portfolios.

Over the five years ended December 31, 2018, we estimate that worldwide market valuations impacted our servicing fee revenues by approximately (2%) to 5% annually. See Table 3: Daily, Month-End and Quarter-End Equity Indices for selected indices. While the specific indices presented are indicative of general market trends, the asset types and classes relevant to individual client portfolios can and do differ, and the performance of associated relevant indices and of client portfolios can therefore differ from the performance of the indices presented. In addition, our asset classifications may differ from those industry classifications presented.

We estimate, using relevant information as of March 31, 2019 and assuming that all other factors remain constant, that:

A 10% increase or decrease in worldwide equity valuations, on a weighted average basis, over the relevant periods for which our servicing fees are calculated, would result in a corresponding change in our total servicing fee revenues, on average and over time, of approximately 3%; and

A 10% increase or decrease in worldwide fixed income valuations, on a weighted average basis, over the relevant periods for which our servicing fees are calculated, would result in a corresponding change in our total servicing fee revenues, on average and over time, of approximately 1%.

TABLE 3: DAILY AVERAGES, MONTH-END AVERAGES AND QUARTER-END EQUITY INDICES⁽¹⁾

	Daily Averages of Indices			Month-End Averages of Indices			Quarter-End Indices		
	Three Months Ended March 31,			Three Months Ended March 31,			Three Months Ended March 31,		
	2019	2018	% Change	2019	2018	% Change	2019	2018	% Change
S&P 500®	2,721	2,733	—	2,774	2,726	2	2,834	2,641	7
MSCI EAFE®	1,833	2,072	(12)	1,860	2,070	(10)	1,875	2,006	(7)
MSCI® Emerging Markets	1,033	1,204	(14)	1,053	1,207	(13)	1,058	1,171	(10)
HFRI Asset Weighted Composite®	NA	NA	NA	1,413	1,409	—	1,425	1,398	2

⁽¹⁾ The index names listed in the table are service marks of their respective owners.

NA Not applicable

Client Activity and Asset Flows

Client activity and asset flows are impacted by the number of transactions we execute on behalf of our clients, including FX settlements, equity and derivative trades, and wire transfer activity, as well as actions by our clients to change the asset class in which their assets are invested. Our servicing fee revenues are impacted by a number of factors, including transaction volumes, asset levels and asset classes in which funds are invested, as well as industry trends associated with these client-related activities.

Our clients may change the asset classes in which their assets are invested, based on their market outlook,

risk acceptance tolerance or other considerations. Over the five years ended December 31, 2018, we estimate that client activity and asset flows, together, impacted our servicing fee revenues by approximately (1%) to 2% annually. See Table 4: Industry Asset Flows for selected asset flow information. While the asset flows presented are indicative of general market trends, the asset types and classes relevant to individual client portfolios can and do differ, and our flows may differ from those market trends. In addition, our asset

classifications may differ from those industry classifications presented.

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Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****TABLE 4: INDUSTRY ASSET FLOWS**

(In billions)	Three Months Ended March 31,	
	2019	2018
North America - ICI Market Data⁽¹⁾⁽²⁾		
Long-Term Funds ⁽³⁾	\$47.3	\$38.0
Money Market	54.0	(52.2)
Exchange-Traded Fund	43.3	62.8
Total ICI Flows	\$144.6	\$48.6
Europe - Broadridge Market Data⁽¹⁾⁽⁴⁾⁽⁵⁾		
Long-Term Funds ⁽³⁾	\$(50.0)	\$160.5
Money Market	19.8	(10.3)
Total Broadridge Flows	\$(30.2)	\$150.2

⁽¹⁾ Industry data is provided for illustrative purposes only and is not intended to reflect our activity or its clients' activity.

⁽²⁾ Source: Investment Company Institute. Investment Company Institute (ICI) data includes funds not registered under the Investment Company Act of 1940. Mutual fund data represents estimates of net new cash flow, which is new sales minus redemptions combined with net exchanges, while ETF data represents net issuance, which is gross issuance less gross redemptions. Data for mutual funds that invest primarily in other mutual funds and ETFs that invest primarily in other ETFs were excluded from the series. ICI classifies mutual funds and ETFs based on language in the fund prospectus.

⁽³⁾ The long-term fund flows reported by ICI are composed of North America Market flows mainly in Equities, Hybrids and Fixed-Income Asset Classes. The long-term fund flows reported by Broadridge are composed of the European, Middle-Eastern, and African market flows mainly in Equities, Fixed-Income and Multi Asset Classes.

⁽⁴⁾ Source: © Copyright 2018, Broadridge Financial Solutions, Inc. Funds of funds have been excluded from Broadridge data (to avoid double counting). Therefore, a market total is the sum of all the investment categories excluding the three funds of funds categories (in-house, ex-house and hedge). ETFs are included in Broadridge's database on mutual funds, but this excludes exchange-traded commodity products that are not mutual funds.

⁽⁵⁾ The first quarter of 2019 data is on a rolling 3 month basis and includes December 2018, January and February 2019 for EMEA (Copyright 2018 Broadridge Financial Solutions, Inc.).

Pricing

The industry in which we operate has historically faced pricing pressure, and our servicing fee revenues are also affected by such pressures today. On average, over the five years ended December 31, 2018, we estimate that pricing pressure with respect to existing clients has impacted our servicing fees by approximately (2%) annually, with the impact ranging from (1%) to (4%) in any given year. Pricing concessions can be a part of a contract renegotiation with a client including terms that may benefit us, such as extending the terms of our relationship with the client, expanding the scope of services that we provide or reducing our dependency on manual processes through the standardization of the services we provide. The timing of the impact of additional revenue generated by such additional services, and the amount of revenue generated, may differ from the impact of pricing concessions on existing services due to the necessary time required to onboard those new services and the nature of those services. These same market pressures also impact the fees we negotiate when we win business from new clients.

Net New Business

Over the five years ended December 31, 2018, net new business, which includes business both won and lost, has affected our servicing fee revenues by approximately 2% on average with a range of 1% to 3% annually. New business can include: custody; product and participant level accounting; daily valuation and administration; record-keeping; cash management; FX, brokerage and other trading services; securities finance; and other services. Revenues associated with new servicing mandates may vary based on the breadth

of services provided, the time required to install the assets, and the types of assets installed.

Management Fee Revenue

Management fees generally are affected by our level of AUM, which we report based on month-end valuations. Management fees for certain components of managed assets, such as ETFs, mutual funds and UCITS, are affected by daily average valuations of AUM. Management fee revenue is more sensitive to market valuations than servicing fee revenue, as a higher proportion of the underlying services provided, and the associated management fees earned, are dependent on equity and fixed-income security valuations. Additional factors, such as the relative mix of assets managed, may have a significant effect on our management fee revenue. While certain management fees are directly determined by the values of AUM and the investment strategies employed, management fees may reflect other factors, including performance fee arrangements, as well as our relationship pricing for clients.

Asset-based management fees for actively managed products are generally charged at a higher percentage of AUM than for passive products. Actively managed products may also include performance fee arrangements which are recorded when the fee is earned, based on predetermined benchmarks associated with the applicable account's performance.

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**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION
AND RESULTS OF OPERATIONS**

In light of the above, we estimate, using relevant information as of March 31, 2019 and assuming that all other factors remain constant, including the impact of business won and lost and client flows, that:

A 10% increase or decrease in worldwide equity valuations, on a weighted average basis, over the relevant periods for which our management fees are calculated, would result in a corresponding change in our total management fee revenues, on average and over time, of approximately 5%; and

A 10% increase or decrease in worldwide fixed-income valuations, on a weighted average basis, over the relevant periods for which our management fees are calculated, would result in a corresponding change in our total management fee revenues, on average and over time, of approximately 4%.

Daily averages, month-end averages and quarter-end indices demonstrate worldwide changes in equity and debt markets that affect our management fee revenue. Quarter-end indices affect the values of AUM as of those dates. See Table 3: Daily Averages, Month-End Averages and Quarter-End Equity Indices for selected indices.

Additional information about fee revenue is provided under "Line of Business Information" included in this Management's Discussion and Analysis.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS*****Net Interest Income***

See Table 2: Total Revenue, for the breakout of interest income and interest expense in the first quarters of 2019 and 2018. NII was \$673 million in the first quarter of 2019 compared to \$643 million in the same period in 2018.

NII is defined as interest income earned on interest-earning assets less interest expense incurred on interest-bearing liabilities. Interest-earning assets, which principally consist of investment securities, interest-bearing deposits with banks, resale agreements, loans and leases and other liquid assets, are financed primarily by client deposits, short-term borrowings and long-term debt.

NIM represents the relationship between annualized FTE NII and average total interest-earning assets for the period. It is calculated by dividing FTE NII by average interest-earning assets. Revenue that is exempt from income taxes, mainly earned from certain investment securities (state and political subdivisions), is adjusted to a FTE basis using the U.S. federal and state statutory income tax rates.

See Table 5: Average Balances and Interest Rates - Fully Taxable-Equivalent Basis, for the breakout of NII on a FTE basis for the first quarters of 2019 and 2018. NII on a FTE basis increased in the first quarter of 2019 compared to the same period in 2018, primarily due to higher U.S. interest rates and disciplined liability pricing, partially offset by lower average deposit balances.

TABLE 5: AVERAGE BALANCES AND INTEREST RATES - FULLY TAXABLE-EQUIVALENT BASIS⁽¹⁾

	Three Months Ended March 31,					
	2019			2018		
(Dollars in millions; fully taxable-equivalent basis)	Average Balance	Interest Revenue/Expense	Average Rates	Average Balance	Interest Revenue/Expense	Average Rates
Interest-bearing deposits with banks	\$48,856	\$ 119	0.99 %	\$51,492	\$ 82	0.64 %
Securities purchased under resale agreements ⁽²⁾	2,775	98	14.33	2,872	77	10.89
Trading account assets	866	—	—	1,138	—	—
Investment securities	88,273	507	2.30	95,362	484	2.03
Loans and leases	23,056	199	3.49	23,959	158	2.68
Other interest-earning assets	15,286	109	2.89	17,733	77	1.78
Average total interest-earning assets	\$179,112	\$1,032	2.34	\$192,556	\$ 878	1.85
Interest-bearing deposits:						
U.S.	\$64,531	\$ 132	0.83	\$48,638	\$ 34	0.28
Non-U.S. ⁽³⁾⁽⁴⁾	59,775	39	0.26	78,582	29	0.15
Total interest-bearing deposits ⁽³⁾⁽⁵⁾	124,306	171	0.56	127,220	63	0.20
Securities sold under repurchase agreements	1,773	12	2.66	2,617	—	—
Other short-term borrowings	1,157	4	1.34	1,255	3	1.09
Long-term debt	10,955	106	3.89	11,412	97	3.37
Other interest-bearing liabilities	4,642	61	5.31	5,260	51	3.87
Average total interest-bearing liabilities	\$142,833	\$ 354	1.00	\$147,764	\$ 214	0.59
Interest rate spread			1.34			1.26
Net interest income-fully taxable-equivalent basis		\$ 678			\$ 664	
Net interest margin-fully taxable-equivalent basis			1.54			1.40
Tax-equivalent adjustment		(5)			(21)	
Net interest income-GAAP basis		\$ 673			\$ 643	

⁽¹⁾ Rates earned/paid on interest-earning assets and interest-bearing liabilities include the impact of hedge activities associated with our asset and liability management activities where applicable.

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⁽²⁾ Reflects the impact of balance sheet netting under enforceable netting agreements of approximately \$59.20 billion in the first quarter of 2019 compared to \$32.18 billion in the same period in 2018. Excluding the impact of netting, the average interest rates would be approximately 0.64% in the first quarter of 2019 compared to 0.89% in the same period in 2018.

⁽³⁾ Average rate includes the impact of FX swap costs of approximately \$39 million in the first quarter of 2019 compared to \$34 million in the same period in 2018. Average rates for total interest-bearing deposits excluding the impact of FX swap costs were 0.43% in the first quarter of 2019 compared to 0.09% in the same period in 2018.

⁽⁴⁾ In the first quarter of 2018, approximately \$15 million of swap costs were reclassified from processing fees and other revenue within fee revenue to net interest income to conform to current presentation.

⁽⁵⁾ Total deposits averaged \$155.34 billion in the first quarter of 2019 compared to \$165.01 billion in the same period in 2018.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Changes in the components of interest-earning assets and interest-bearing liabilities are discussed in more detail below. Additional information about the components of interest income and interest expense is provided in Note 14 to the consolidated financial statements in this Form 10-Q.

Average total interest-earning assets were \$179.11 billion in the first quarter of 2019 compared to \$192.56 billion in the same period in 2018. The decrease is largely driven by lower average client deposits, which includes both interest-bearing and non-interest-bearing deposits.

Interest-bearing deposits with banks averaged \$48.86 billion in the first quarter of 2019 compared to \$51.49 billion in the same period in 2018. These deposits primarily reflect our maintenance of cash balances at the Federal Reserve, the European Central Bank (ECB) and other non-U.S. central banks.

Securities purchased under resale agreements averaged \$2.78 billion in the first quarter of 2019 compared to \$2.87 billion in the same period in 2018. While the on-balance sheet amount has remained stable, the impact of balance sheet netting has increased to \$59.20 billion in the first quarter of 2019 compared to \$32.18 billion in the same period in 2018. We maintain an agreement with the Fixed Income Clearing Corporation (FICC), a clearing organization that enables us to net all securities sold under repurchase agreements against those purchased under resale agreements with counterparties that are also members of the clearing organization. The increase in balance sheet netting, in the first quarter of 2019 compared to the same period in 2018, is primarily due to the expansion of our program with the FICC and new client activity.

Investment securities averaged \$88.27 billion in the first quarter of 2019 compared to \$95.36 billion in the same period in 2018. The decrease in average investment securities was primarily driven by our investment repositioning strategy to prioritize capital efficient client lending while managing OCI sensitivity.

Loans and leases averaged \$23.06 billion in the first quarter of 2019 compared to \$23.96 billion in the same period in 2018.

Average other interest-earning assets, largely associated with our enhanced custody business, decreased to \$15.29 billion in the first quarter of 2019 from \$17.73 billion in the same period in 2018, primarily driven by a reduction in the level of cash collateral posted. Enhanced custody is our securities financing business where we act as principal with respect to our custody clients and generate securities finance revenue. The NII earned on these transactions is generally lower than the interest earned on other alternative investments.

Aggregate average total interest-bearing deposits decreased to \$124.31 billion in the first quarter of 2019 from \$127.22 billion in the same period in 2018. Average U.S. interest-bearing deposits increased as a result of a gradual shift from non-interest bearing deposits and a reclassification from non-U.S. into U.S. interest-bearing deposits that occurred in the third quarter of 2018. The overall decrease was primarily driven by lower client deposit levels. Future deposit levels will be influenced by the underlying asset servicing business, client deposit behavior and market conditions, including the general levels of U.S. and non-U.S. interest rates.

Average other short-term borrowings, largely associated with our tax-exempt investment program, decreased to \$1.16 billion in the first quarter of 2019 from \$1.26 billion in the same period in 2018.

Average long-term debt was \$10.96 billion in the first quarter of 2019 compared to \$11.41 billion in the same period in 2018. These amounts reflect issuances and maturities of senior debt during the respective periods.

Average other interest-bearing liabilities were \$4.64 billion in the first quarter of 2019 compared to \$5.26 billion in the same period in 2018. Other interest-bearing liabilities primarily reflect our level of cash collateral received from clients in connection with our enhanced custody business, which is presented on a net basis where we have enforceable netting agreements.

Several factors could affect future levels of NII and NIM, including the volume and mix of client deposits and funding sources; central bank actions; balance sheet management activities; changes in the level and slope of U.S. and non-U.S. interest rates; revised or proposed regulatory capital or liquidity standards, or interpretations of those standards; the yields earned on securities purchased compared to the yields earned on securities sold or matured and changes in the type and amount of credit or other loans we extend.

Based on market conditions and other factors, including regulatory standards, we continue to reinvest the majority of the proceeds from pay-downs and maturities of investment securities in highly-rated U.S. and non-U.S. securities, such as U.S. Treasury and agency securities, sovereign debt securities and federal agency MBS. The pace at which we reinvest and the types of investment securities purchased will depend on the impact of market conditions, the implementation of regulatory standards, including interpretation of those standards and other factors over time. We expect these factors and the levels of global interest rates to impact our reinvestment program and future levels of NII and NIM.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****Expenses**

Table 6: Expenses, provides the breakout of expenses in the first quarters of 2019 and 2018.

TABLE 6: EXPENSES

(Dollars in millions)	Three Months Ended March		% Change
	31, 2019	31, 2018	
Compensation and employee benefits ⁽¹⁾	\$ 1,229	\$ 1,249	(2)%
Information systems and communications	362	315	15
Transaction processing services	242	254	(5)
Occupancy	116	120	(3)
Acquisition costs	13	—	nm
Restructuring charges, net	(4)	—	nm
Amortization of other intangible assets ⁽¹⁾	60	50	20
Other:			
Professional services	80	79	1
Regulatory fees and assessments	18	27	(33)
Other	177	174	2
Total other	275	280	(2)
Total expenses ⁽¹⁾	\$ 2,293	\$ 2,268	1
Number of employees at quarter-end	39,969	37,192	7

⁽¹⁾ CRD contributed approximately \$41 million in total expenses in the first quarter of 2019, including approximately \$31 million in compensation and employee benefits, and \$10 million in other expense lines. In addition, CRD-related expenses in the first quarter of 2019 include \$15 million in amortization of other intangible assets.

nm Not meaningful

Compensation and employee benefits expenses decreased 2% in the first quarter of 2019 compared to the same period in 2018, partially due to lower seasonal deferred incentive compensation expenses for retirement eligible employees and related payroll taxes. These seasonal expenses were \$137 million in the first quarter of 2019 compared to \$148 million in the same period in 2018. The decrease is also a result of lower contractor service costs in the first quarter of 2019 compared to the same period in 2018, and is partially offset by \$31 million of CRD compensation and employee benefits expenses in the first quarter of 2019 and annual merit increases.

Headcount increased 7% in the first quarter of 2019 compared to the same period in 2018, primarily driven by growth in our low cost locations and the impact of CRD, partially offset by a reduction in headcount in our high cost locations. Total headcount decreased by approximately 0.5% as of March 31, 2019 compared to December 31, 2018, primarily driven by a reduction in high cost locations headcount.

Information systems and communications expenses increased 15% in the first quarter of 2019 compared to the same period in 2018. The increase was primarily related to technology infrastructure enhancements.

Transaction processing services expenses decreased 5% in the first quarter of 2019 compared to the same period in 2018, due to lower sub-custodian costs.

Occupancy expenses decreased 3% in the first quarter of 2019 compared to the same period in 2018, primarily driven by the advancement of our global footprint strategy.

Amortization of other intangible assets increased 20% in the first quarter of 2019 compared to the same period in 2018, primarily due to the CRD acquisition.

Other expenses decreased 2% in the first quarter of 2019 compared to the same period in 2018, primarily due to lower travel and insurance costs.

As a systemically important financial institution, we are subject to enhanced supervision and prudential standards. Our status as a G-SIB has also resulted in heightened prudential and conduct expectations of our U.S. and international regulators with respect to our capital and liquidity management and our compliance and risk oversight programs. These heightened expectations have increased our regulatory compliance costs, including personnel, technology and systems, as well as significant additional implementation and related costs to enhance our regulatory compliance programs. Regulatory compliance requirements are anticipated to remain at least at the elevated levels we have experienced over the past several years.

Acquisition Costs

We recorded approximately \$13 million of acquisition costs in the first quarter of 2019 related to our acquisition of CRD. As we integrate CRD into our business, we expect to incur a total of approximately \$200 million of acquisition costs, including merger and integration costs, through 2021, out of which \$44 million has been incurred as of March 31, 2019.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS*****Restructuring and Repositioning Charges******Repositioning Charges***

In 2018, we initiated a new expense program to accelerate efforts to become a higher-performing organization and help navigate challenging market and industry conditions. Through our new expense savings program, we expect to realize \$350 million in gross expense savings in 2019. In the first quarter of 2019, we achieved approximately \$78 million of gross expense savings, including \$31 million in resource discipline and \$47 million in process re-engineering and automation benefits. Resource discipline benefits can include reducing senior management headcount, rigorous performance management, vendor management and optimization of real estate. Process re-engineering and automation benefits can include high-cost location workforce reductions, reducing manual/bespoke and redundant activities, streamlining operational centers and moving to common platforms/retiring legacy applications.

Beacon

In the first quarter of 2019, we released \$4 million of restructuring accruals related to Beacon as the program continues to wind down. We recorded no restructuring charges in the same period in 2018. The following table presents aggregate restructuring and repositioning activity for the periods indicated:

TABLE 7: RESTRUCTURING AND REPOSITIONING CHARGES

(In millions)	Employee Related Costs	Real Estate Actions	Asset and Other Write-offs	Total
Accrual balance at December 31, 2017	\$ 166	\$ 32	\$ 3	\$201
Accruals for Beacon	—	—	—	—
Payments and other adjustments	(22)	(4)	—	(26)
Accrual balance at March 31, 2018	\$ 144	\$ 28	\$ 3	\$175
Accrual balance at December 31, 2018	\$ 303	\$ 37	\$ 1	\$341
Accruals for Beacon	(4)	—	—	(4)
Payments and other adjustments	(53)	(25)	—	(78)
Accrual balance at March 31, 2019	\$ 246	\$ 12	\$ 1	\$259

Income Tax Expense

Income tax expense was \$127 million in the first quarter of 2019 compared to \$129 million in the same period in 2018. Our effective tax rate in the first quarter of 2019 was 20.1% compared to 16.4% in the same period in 2018. The effective tax rate in the first quarter of 2019 included a decrease in excess deductions related to stock based compensation. The effective tax rate in the first quarter of 2018 included one-time benefits related to audit settlements and the realization of a tax loss.

LINE OF BUSINESS INFORMATION

Our operations are organized into two lines of business: Investment Servicing and Investment Management, which are defined based on products and services provided. The results of operations for these lines of business are not necessarily comparable with those of other companies, including companies in the financial services industry.

Investment Servicing provides services for institutional clients, including mutual funds, collective investment funds and other investment pools, corporate and public retirement plans, insurance companies, investment managers, foundations and endowments worldwide. Products include: custody; product- and participant-level accounting; daily pricing and administration; master trust and master custody; record-keeping; cash management; FX, brokerage and other trading services; securities finance; our enhanced custody product, which integrates principal securities lending and custody; deposit and short-term investment facilities; loans and lease financing; investment manager and alternative investment manager operations outsourcing; and performance, risk and compliance analytics to support institutional

investors. Products and services related to CRD include: portfolio modeling and construction; trade order management; investment risk and compliance; and wealth management solutions.

Investment Management, through State Street Global Advisors, provides a broad range of investment management strategies and products for our clients. Our investment management strategies and products span the risk/reward spectrum, including core and enhanced indexing, multi-asset strategies, active quantitative and fundamental active capabilities and alternative investment strategies. Our AUM is currently primarily weighted to indexed strategies. In addition, we provide a breadth of services and solutions, including environmental, social and governance investing, defined benefit and defined contribution and Outsourced Chief Investment Officer. State Street Global Advisors is also a provider of ETFs, including the SPDR® ETF brand. While management fees are primarily determined by the values of AUM and the investment strategies employed, management fees reflect other factors as well, including the benchmarks specified in the respective management agreements related to performance fees.

For information about our two lines of business, as well as the revenues, expenses and capital allocation methodologies associated with them, refer to Note 18 to the consolidated financial statements in this Form 10-Q.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****Investment Servicing****TABLE 8: INVESTMENT SERVICING LINE OF BUSINESS RESULTS**

(Dollars in millions)	Three Months Ended March 31,		
	2019	2018	% Change
Servicing fees	\$1,251	\$1,421	(12)%
Foreign exchange trading services	246	274	(10)
Securities finance	117	141	(17)
Processing fees and other ⁽¹⁾	180	77	134
Total fee revenue ⁽¹⁾	1,794	1,913	(6)
Net interest income	679	648	5
Gains (losses) related to investment securities, net	(1)	(2)	nm
Total revenue⁽¹⁾	2,472	2,559	(3)
Provision for loan losses	4	—	nm
Total expenses	1,864	1,870	—
Income before income tax expense	\$604	\$689	(12)
Pre-tax margin	24	% 27	%

⁽¹⁾ CRD contributed approximately \$99 million and \$41 million in total revenue and total expenses, respectively, in the first quarter of 2019, including approximately \$95 million in processing fees and other revenue and \$4 million in brokerage and other trading services within foreign exchange trading services, and expenses contributed approximately \$31 million in compensation and employee benefits and \$10 million in other expense lines. In addition, CRD-related expenses in the first quarter of 2019 include \$15 million in amortization of other intangible assets.

Servicing Fees

Servicing fees decreased 12% in the first quarter of 2019 compared to the same period in 2018, primarily due to challenging industry conditions including fee concessions, lower client activity and flows, weaker average equity market levels and a previously announced client transition, partially offset by new business. Servicing fees, excluding the impact of FX rates, decreased 10% in the first quarter of 2019 compared to the same period in 2018.

Servicing fees generated outside the U.S. were approximately 46% of total servicing fees in the first quarter of both 2019 and 2018.

TABLE 9: ASSETS UNDER CUSTODY AND/OR ADMINISTRATION BY PRODUCT

(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
Collective funds	\$9,436	\$8,999	\$9,908
Mutual funds	8,586	7,912	7,503
Insurance and other products	8,108	8,220	9,071
Pension products	6,513	6,489	6,802
Total	\$32,643	\$31,620	\$33,284

TABLE 10: ASSETS UNDER CUSTODY AND/OR ADMINISTRATION BY ASSET CLASS

(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
Equities	\$18,924	\$18,041	\$19,198
Fixed-income	9,831	9,758	10,186
Short-term and other investments	3,888	3,821	3,900

Total **\$32,643** \$ 31,620 \$33,284

TABLE 11: ASSETS UNDER CUSTODY AND/OR ADMINISTRATION BY GEOGRAPHY⁽¹⁾

(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
Americas	\$23,979	\$ 23,203	\$24,336
Europe/Middle East/Africa	6,875	6,699	7,211
Asia/Pacific	1,789	1,718	1,737
Total	\$32,643	\$ 31,620	\$33,284

⁽¹⁾ Geographic mix is generally based on the domicile of the entity servicing the funds and is not necessarily representative of the underlying asset mix.

Asset servicing mandates newly announced in the first quarter of 2019 totaled approximately \$120 billion. Servicing assets remaining to be installed in future periods totaled approximately \$310 billion as of March 31, 2019, which will be reflected in AUC/A in future periods after installation and will generate servicing fee revenue in subsequent periods. The full revenue impact

of such mandates will be realized over several quarters as the assets are installed and additional services are added over that period.

New asset servicing mandates and servicing assets remaining to be installed in future periods exclude certain new business which has been contracted, but for which the client has not yet provided

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permission to publicly disclose and the expected installation date extends beyond one quarter. These excluded assets, which from time to time may be significant, will be included in new asset servicing mandates and reflected in servicing assets remaining to be installed in the period in which the client provides its permission. Servicing mandates and servicing assets remaining to be installed in future periods are presented on a gross basis and therefore also do not include the impact of clients who have notified us during the period of their intent to terminate or reduce their relationship with us, which may from time to time be significant.

With respect to these new servicing mandates, once installed we may provide various services, including, accounting, bank loan servicing, compliance reporting and monitoring, custody, depository banking services, FX, fund administration, hedge fund servicing, middle office outsourcing, performance and analytics, private equity administration, real estate administration, securities finance, transfer agency and wealth management services. Revenues associated with new servicing mandates may vary based on the breadth of services provided and the timing of installation, and the types of assets.

For additional information about the impact of worldwide equity and fixed-income valuations on our fee revenue, as well as other key drivers of our servicing fee revenue, refer to "Fee Revenue" in "Consolidated Results of Operations" included in this Management's Discussion and Analysis.

As a result of a decision to diversify providers, one of our large clients has moved a portion of its assets, largely common trust funds, to another service provider. We remain a significant service provider to this client. The transition, which began in 2018 and is largely complete, represents approximately \$1 trillion in assets with respect to which we no longer derive revenue post-transition.

Foreign Exchange Trading Services

Foreign exchange trading services revenue, as presented in Table 8: Investment Servicing Line of Business Results, decreased 10% in the first quarter of 2019 compared to the same period in 2018, primarily due to lower FX client volumes and market volatility. Foreign exchange trading services is composed of revenue generated by FX trading, as well as revenue generated by brokerage and other trading services. FX trading and brokerage and other trading services represented approximately 57% and 43%, respectively, of our total foreign exchange trading services revenue in the first quarter of 2019, compared to 60% and 40%, respectively, in the same period in 2018.

We primarily earn FX trading revenue by acting as a principal market-maker through both "direct sales and trading" and "indirect FX trading."

Direct sales and trading: Represent FX transactions at negotiated rates with clients and investment managers that contact our trading desk directly. These principal market-making activities include transactions for funds serviced by third party custodians or prime brokers, as well as those funds under custody with us.

Indirect FX trading: Represent FX transactions with clients or their investment managers routed to our FX desk through our asset-servicing operation, and to all of which, we are the funds' custodian. We execute indirect FX trades as a principal at rates disclosed to our clients.

Our FX trading revenue is influenced by multiple factors, including: the volume and type of client FX transactions and related spreads; currency volatility, reflecting market conditions; and our management of exchange rate, interest rate and other market risks associated with our FX activities. The relative impact of these factors on our total FX trading revenues often differs from period to period. For example, assuming all other factors remain constant, increases or decreases in volumes or bid-offer spreads across product mix tend to result in increases or decreases, as the case may be, in client-related FX revenue.

Our clients that utilize indirect FX trading can, in addition to executing their FX transactions through dealers not affiliated with us, transition from indirect FX trading to either direct sales and trading execution,

including our “Street FX” service, or to one of our electronic trading platforms. Street FX, in which we continue to act as a principal market-maker, enables our clients to define their FX execution strategy and automate the FX trade execution process, both for funds under custody with us as well as those under custody at another bank.

We also earn foreign exchange trading services revenue through "electronic FX services" and "other trading, transition management and brokerage revenue."

Electronic FX services: Our clients may choose to execute FX transactions through one of our electronic trading platforms. These transactions generate revenue through a “click” fee.

Other trading, transition management and brokerage revenue: As our clients look to us to enhance and preserve portfolio values, they may choose to utilize our Transition or Currency Management capabilities or transact with our Equity Trade execution group. These transactions generate revenue via commissions charged for trades transacted during the management of these portfolios.

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MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

Our transition management revenue has been adversely affected by compliance issues in our U.K. business during 2010 and 2011, including settlements with the U.K. Financial Conduct Authority in 2014 and the DOJ and SEC in 2017, including a deferred prosecution agreement. The reputational and regulatory impact of those compliance issues continues and may continue to adversely affect our results in future periods.

Securities Finance

Our securities finance business consists of three components:

- (1) an agency lending program for State Street Global Advisors managed investment funds with a broad range of investment objectives, which we refer to as the State Street Global Advisors lending funds;
- (2) an agency lending program for third-party investment managers and asset owners, which we refer to as the agency lending funds; and
- (3) security lending transactions which we enter into as principal, which we refer to as our enhanced custody business.

Securities finance revenue earned from our agency lending activities, which is composed of our split of both the spreads related to cash collateral and the fees related to non-cash collateral, is principally a function of the volume of securities on loan, the interest rate spreads and fees earned on the underlying collateral and our share of the fee split.

As principal, our enhanced custody business borrows securities from the lending client or other market participants and then lends such securities to the subsequent borrower, either our client or a broker/dealer. We act as principal when the lending client is unable to, or elects not to, transact directly with the market and execute the transaction and furnish the securities. In our role as principal, we provide support to the transaction through our credit rating. While we source a significant proportion of the securities furnished by us in our role as principal from third parties, we have the ability to source securities through assets under custody from clients who have designated us as an eligible borrower.

Securities finance revenue, as presented in Table 8: Investment Servicing Line of Business Results, decreased 17% in the first quarter of 2019 compared to the same period in 2018, primarily due to balance sheet repositioning efforts in the second half of 2018 within our enhanced custody business and lower client activity.

Market influences may continue to affect client demand for securities finance, and as a result our revenue from, and the profitability of, our securities lending activities in future periods. In addition, the constantly evolving regulatory environment, including

revised or proposed capital and liquidity standards, interpretations of those standards, and our own balance sheet management activities, may influence modifications to the way in which we deliver our agency lending or enhanced custody businesses, the volume of our securities lending activity and related revenue and profitability in future periods.

Processing Fees and Other

Processing fees and other revenue includes diverse types of fees and revenue, including fees from software licensing and maintenance, fees from our structured products business, equity income from our joint venture investments, gains and losses on sales of other assets and amortization of our tax-advantaged investments.

Processing fees and other revenue, presented in Table 8: Investment Servicing Line of Business Results, increased 134% in the first quarter of 2019 compared to the same period in 2018, and reflects approximately \$95 million from CRD in the first quarter of 2019. Revenue related to the front office solutions provided by CRD is primarily driven by the sale of term software licenses and software as a service arrangement inclusive of professional services such as consulting and implementation services, software

support and maintenance.

Expenses

Total expenses for Investment Servicing were flat in the first quarter of 2019 compared to the same period in 2018, primarily due to \$41 million of expenses from CRD, higher technology costs and higher investments to support new business, offset by benefits of our previously announced expense savings initiative and lower seasonal deferred incentive compensation. In addition, CRD-related expenses in the first quarter of 2019 include \$15 million in amortization of other intangible assets. Seasonal deferred incentive compensation expense and payroll taxes was \$116 million in the first quarter of 2019 compared to \$132 million in the same period in 2018.

Additional information about expenses is provided under "Expenses" in "Consolidated Results of Operations" included in this Management's Discussion and Analysis.

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(Dollars in millions)	Three Months Ended March 31,		% Change
	2019	2018	
Management fees	\$ 420	\$ 472	(11)%
Foreign exchange trading services ⁽¹⁾	34	30	13
Securities finance	1	—	nm
Processing fees and other	11	—	nm
Total fee revenue	466	502	(7)
Net interest income	(6)	(5)	20
Total revenue	460	497	(7)
Total expenses	406	398	2
Income before income tax expense	\$ 54	\$ 99	(45)
Pre-tax margin	12 %	20 %	

⁽¹⁾ Includes revenues from distributing and marketing activities for U.S. mutual funds and ETFs associated with State Street Global Advisors.
nm Not meaningful

Management Fees

Management fees decreased 11% in the first quarter of 2019 compared to the same period in 2018, reflecting product mix and weaker average equity market levels.

Management fees generated outside the U.S. were approximately 27% of total management fees in the first quarter of both 2019 and 2018.

TABLE 13: ASSETS UNDER MANAGEMENT BY ASSET CLASS AND INVESTMENT APPROACH

(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
Equity:			
Active	\$ 85	\$ 80	\$ 94
Passive	1,696	1,464	1,576
Total Equity	1,781	1,544	1,670
Fixed-Income:			
Active	88	81	79
Passive	341	341	354
Total Fixed-Income	429	422	433
Cash ⁽¹⁾	314	287	336
Multi-Asset-Class Solutions:			
Active	22	19	18
Passive	125	113	128
Total Multi-Asset-Class Solutions	147	132	146
Alternative Investments ⁽²⁾ :			
Active	21	21	23
Passive	113	105	121
Total Alternative Investments	134	126	144
Total	\$ 2,805	\$ 2,511	\$ 2,729

(1) Includes both floating- and constant-net-asset-value portfolios held in commingled structures or separate accounts.

(2) Includes real estate investment trusts, currency and commodities, including SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF.

We are not the investment manager for the SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF, but act as the marketing agent.

TABLE 14: EXCHANGE-TRADED FUNDS BY ASSET CLASS⁽¹⁾

(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
Alternative Investments ⁽²⁾	\$ 45	\$ 43	\$ 48
Cash	8	9	3
Equity	535	482	513
Fixed-Income	73	66	65
Total Exchange-Traded Funds	\$ 661	\$ 600	\$ 629

(1) ETFs are a component of AUM presented in the preceding table.

(2) Includes real estate investment trusts, currency and commodities, including SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF.

We are not the investment manager for the SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF, but act as the marketing agent.

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(In billions)	March 31, 2019	December 31, 2018	March 31, 2018
North America	\$1,899	\$ 1,731	\$1,885
Europe/Middle East/Africa	447	421	511
Asia/Pacific	459	359	333
Total	\$2,805	\$ 2,511	\$2,729

⁽¹⁾ Geographic mix is based on client location or fund management location.

TABLE 16: ACTIVITY IN ASSETS UNDER MANAGEMENT BY PRODUCT CATEGORY

(In billions)	Equity	Fixed-Income	Cash ⁽¹⁾	Multi-Asset-Class Solutions	Alternative Investments ⁽²⁾	Total
Balance as of December 31, 2017	\$1,745	\$ 414	\$ 330	\$ 147	\$ 146	\$2,782
Long-term institutional flows, net ⁽³⁾	(45)	12	—	(3)	(2)	(38)
Exchange-Traded Fund flows, net	(3)	7	6	—	(2)	8
Cash fund flows, net	—	—	(50)	—	—	(50)
Total flows, net	(48)	19	(44)	(3)	(4)	(80)
Market appreciation (depreciation)	(142)	(7)	3	(10)	(10)	(166)
Foreign exchange impact	(11)	(4)	(2)	(2)	(6)	(25)
Total market/foreign exchange impact	(153)	(11)	1	(12)	(16)	(191)
Balance as of December 31, 2018	\$1,544	\$ 422	\$ 287	\$ 132	\$ 126	\$2,511
Long-term institutional flows, net ⁽³⁾	53	(9)	1	5	2	52
Exchange-Traded Fund flows, net	(6)	4	(1)	—	—	(3)
Cash fund flows, net	—	—	24	—	—	24
Total flows, net	47	(5)	24	5	2	73
Market appreciation (depreciation)	191	13	3	10	6	223
Foreign exchange impact	(1)	(1)	—	—	—	(2)
Total market/foreign exchange impact	190	12	3	10	6	221
Balance as of March 31, 2019	\$1,781	\$ 429	\$ 314	\$ 147	\$ 134	\$2,805

⁽¹⁾ Includes both floating- and constant-net-asset-value portfolios held in commingled structures or separate accounts.

⁽²⁾ Includes real estate investment trusts, currency and commodities, including SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF.

We are not the investment manager for the SPDR[®] Gold Shares ETF and SPDR[®] Long Dollar Gold Trust ETF, but act as the marketing agent.

⁽³⁾ Amounts represent long-term portfolios, excluding ETFs.

The preceding table does not include approximately \$25 billion of new asset management business which was awarded but not installed as of March 31, 2019. New business will be reflected in AUM in future periods after installation, and will generate management fee revenue in subsequent periods. Total AUM as of March 31, 2019 included managed assets lost but not liquidated. Lost business occurs from time to time and it is difficult to predict the timing of client behavior in transitioning these assets as the timing can vary significantly.

Expenses

Total expenses for Investment Management increased 2% in the first quarter of 2019 compared to the same period in 2018, primarily due to annual merit increases and seasonal deferred incentive compensation. Seasonal deferred incentive compensation expense and payroll taxes was \$21 million in the

first quarter of 2019 compared to \$16 million in the same period in 2018. Additional information about expenses is provided under "Expenses" in "Consolidated Results of Operations" included in this Management's Discussion and Analysis.

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The structure of our consolidated statement of condition is primarily driven by the liabilities generated by our Investment Servicing and Investment Management lines of business. Our clients' needs and our operating objectives determine balance sheet volume, mix and currency denomination. As our clients execute their worldwide cash management and investment activities, they utilize deposits and short-term investments that constitute the majority of our liabilities. These liabilities are generally in the form of interest-bearing transaction account deposits, which are denominated in a variety of currencies; non-interest-bearing demand deposits; and repurchase agreements, which generally serve as short-term investment alternatives for our clients.

Deposits and other liabilities resulting from client initiated transactions are invested in assets that generally have contractual maturities significantly longer than our liabilities; however, we evaluate the operational nature of our deposits and seek to maintain appropriate short-term liquidity of those liabilities that are not operational in nature and maintain longer-termed assets for our operational deposits. Our assets consist primarily of securities held in our AFS or HTM portfolios and short-duration financial instruments, such as interest-bearing deposits with banks and securities purchased under resale agreements. The actual mix of assets is determined by the characteristics of the client liabilities and our desire to maintain a well-diversified portfolio of high-quality assets.

TABLE 17: AVERAGE STATEMENT OF CONDITION⁽¹⁾

(In millions)	Three Months Ended March 31,	
	2019	2018
Assets:		
Interest-bearing deposits with banks	\$48,856	\$51,492
Securities purchased under resale agreements	2,775	2,872
Trading account assets	866	1,138
U.S. Treasury and federal agencies:		
Direct obligations	15,427	17,183
Mortgage-and asset-backed securities	39,216	28,307
State and political subdivisions	1,914	8,622
Other investments:		
Asset-backed securities	9,078	19,543
Collateralized mortgage-backed securities and obligations	980	2,088
Other debt investments and equity securities	21,658	19,619
Total Investment securities	88,273	95,362
Loans and leases	23,056	23,959
Other interest-earning assets	15,286	17,733
Average total interest-earning assets	179,112	192,556
Cash and due from banks	3,078	3,081
Other non-interest-earning assets	37,370	31,233
Average total assets	\$219,560	\$226,870
Liabilities and shareholders' equity:		
Interest-bearing deposits:		
U.S.	\$64,531	\$48,638
Non-U.S.	59,775	78,582

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Total interest-bearing deposits ⁽²⁾	124,306	127,220
Securities sold under repurchase agreements	1,773	2,617
Other short-term borrowings	1,157	1,255
Long-term debt	10,955	11,412
Other interest-bearing liabilities	4,642	5,260
Average total interest-bearing liabilities	142,833	147,764
Non-interest-bearing deposits ⁽²⁾	31,037	37,790
Other non-interest-bearing liabilities	20,921	18,942
Preferred shareholders' equity	3,690	3,197
Common shareholders' equity	21,079	19,177
Average total liabilities and shareholders' equity	\$219,560	\$226,870

⁽¹⁾ Additional information about our average statement of condition, primarily our interest-earning assets and interest-bearing liabilities, is provided in "Net Interest Income" included in this Management's Discussion and Analysis.

⁽²⁾ Total deposits averaged \$155.34 billion in the first quarter of 2019 compared to \$165.01 billion in the same period in 2018.

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Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****Investment Securities****TABLE 18: CARRYING VALUES OF INVESTMENT SECURITIES**

(In millions)	March 31, 2019	December 31, 2018
Available-for-sale:		
U.S. Treasury and federal agencies:		
Direct obligations	\$ 1,041	\$ 1,039
Mortgage-backed securities	20,043	15,968
Total U.S. Treasury and federal agencies	21,084	17,007
Asset-backed securities:		
Student loans ⁽¹⁾	481	541
Credit cards	586	583
Other	886	593
Total asset-backed securities	1,953	1,717
Non-U.S. debt securities:		
Mortgage-backed securities	1,517	1,682
Asset-backed securities	1,511	1,574
Government securities	12,572	12,793
Other	6,576	6,602
Total non-U.S. debt securities	22,176	22,651
State and political subdivisions	1,940	1,918
Collateralized mortgage obligations	129	197
Other U.S. debt securities	1,720	1,658
Total	\$49,002	\$ 45,148
Held-to-maturity⁽²⁾:		
U.S. Treasury and federal agencies:		
Direct obligations	\$ 13,369	\$ 14,794
Mortgage-backed securities	22,568	21,647
Total U.S. Treasury and federal agencies	35,937	36,441
Asset-backed securities:		
Student loans ⁽¹⁾	3,286	3,191
Credit cards	—	193
Other	1	1
Total asset-backed securities	3,287	3,385
Non-U.S. debt securities:		
Mortgage-backed securities	575	638
Asset-backed securities	98	223
Government securities	399	358
Other	44	46
Total non-U.S. debt securities	1,116	1,265
Collateralized mortgage obligations	805	823
Total	\$41,145	\$ 41,914

⁽¹⁾ Primarily comprised of securities guaranteed by the federal government with respect to at least 97% of defaulted principal and accrued interest on the underlying loans.

⁽²⁾ Includes securities at amortized cost or fair value on the date of transfer from AFS.

Additional information about our investment securities portfolio is provided in Note 3 to the consolidated financial statements in this Form 10-Q.

We manage our investment securities portfolio to align with the interest rate and duration characteristics of our client liabilities and in the context of the overall structure of our consolidated statement of condition, in consideration of the global interest rate environment. We consider a well-diversified, high-credit quality investment securities portfolio to be an important element in the management of our consolidated statement of condition.

Average duration of our investment securities portfolio was 2.8 years and 3.1 years as of March 31, 2019 and December 31, 2018, respectively. The decrease in securities duration reflects reinvestment into shorter duration securities and lower long-end U.S. interest rates.

Approximately 91% and 90% of the carrying value of the portfolio was rated “AAA” or “AA” as of March 31, 2019 and December 31, 2018, respectively.

TABLE 19: INVESTMENT PORTFOLIO BY EXTERNAL CREDIT RATING

	March 31, 2019	December 31, 2018	
AAA ⁽¹⁾	78 %	76 %	
AA	13	14	
A	5	5	
BBB	4	5	
Below BBB	—	—	
	100 %	100 %	

⁽¹⁾ Includes U.S. Treasury and federal agency securities that are split-rated, “AAA” by Moody’s Investors Service and “AA+” by Standard & Poor’s and also includes Agency MBS securities which are not explicitly rated but which have an explicit or assumed guarantee from the U.S. government.

As of March 31, 2019 and December 31, 2018, the investment portfolio was diversified with respect to asset class composition. The following table presents the composition of these asset classes.

TABLE 20: INVESTMENT PORTFOLIO BY ASSET CLASS

	March 31, 2019	December 31, 2018	
U.S. Agency Mortgage-backed securities	44 %	40 %	
Foreign Sovereign	18	19	
U.S. Treasuries	16	18	
Asset-backed securities	10	11	
Other Credit	12	12	
	100 %	100 %	

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Approximately 26% of the aggregate carrying value of our investment securities portfolio was non-U.S. debt securities as of March 31, 2019, compared to approximately 27% as of December 31, 2018.

TABLE 21: NON-U.S. DEBT SECURITIES

(In millions)	March 31, 2019	December 31, 2018
Available-for-sale:		
Australia	\$2,533	\$ 2,847
United Kingdom	2,488	2,580
Canada	2,188	2,185
France	1,837	1,875
Germany	1,606	1,547
Spain	1,481	1,504
Japan	1,342	1,352
Austria	1,323	1,312
Ireland	1,285	1,301
European ⁽¹⁾	1,151	1,087
Netherlands	1,108	1,116
Italy	952	1,010
Belgium	944	952
Finland	777	789
Asian ⁽¹⁾	338	338
Hong Kong	309	458
Sweden	189	186
Brazil	90	—
Norway	50	94
Other ⁽²⁾	185	118
Total	\$22,176	\$ 22,651
Held-to-maturity:		
Singapore	\$285	\$ 242
United Kingdom	234	363
Australia	153	158
Netherlands	140	187
Germany	113	115
Spain	89	92
Other ⁽³⁾	102	108
Total	\$1,116	\$ 1,265

⁽¹⁾ Consists entirely of supranational bonds.

⁽²⁾ Included approximately \$145 million and \$78 million as of March 31, 2019 and December 31, 2018, respectively, related to supranational bonds.

⁽³⁾ Included approximately \$58 million and \$61 million as of March 31, 2019 and December 31, 2018, respectively, related to Italy and Portugal, all of which were related to MBS.

Approximately 73% and 74% of the aggregate carrying value of these non-U.S. debt securities was rated "AAA" or "AA" as of March 31, 2019 and December 31, 2018, respectively. The majority of these securities comprised senior positions within the security structures; these positions have a level of protection provided through subordination and other forms of credit protection. As of March 31, 2019 and December 31, 2018,

approximately 28% and 31%, respectively, of the aggregate carrying value of these non-U.S. debt securities was floating-rate.

As of March 31, 2019, our non-U.S. debt securities had an average market-to-book ratio of 100.9%, and an aggregate pre-tax net unrealized gain of \$205 million, composed of gross unrealized gains of \$240 million and

gross unrealized losses of \$35 million. These unrealized amounts included:

a pre-tax net unrealized loss of \$130 million, composed of gross unrealized gains of \$157 million and gross unrealized losses of \$27 million, associated with non-U.S. AFS debt securities; and

a pre-tax net unrealized gain of \$75 million, composed of gross unrealized gains of \$83 million and gross unrealized losses of \$8 million, associated with non-U.S. HTM debt securities.

As of March 31, 2019, the underlying collateral for non-U.S. MBS and ABS primarily included U.K., Australian, Italian and Dutch mortgages as well as U.K., German and Spanish consumer ABS. The securities listed under "Canada" were composed of Canadian government securities and corporate debt and covered bonds. The securities listed under "France" were composed of sovereign bonds and corporate debt and covered bonds. The securities listed under "Japan" were substantially composed of Japanese government securities.

Municipal Obligations

We carried approximately \$1.94 billion of municipal securities classified as state and political subdivisions in our investment securities portfolio as of March 31, 2019 as shown in Table 18: Carrying Values of Investment Securities, all of which were classified as AFS. As of March 31, 2019, we also provided approximately \$9.25 billion of credit and liquidity facilities to municipal issuers.

TABLE 22: STATE AND MUNICIPAL OBLIGORS⁽¹⁾

(Dollars in millions)	Total Municipal Securities	Credit and Liquidity Facilities ⁽²⁾	Total	% of Total Municipal Exposure
March 31, 2019				
State of Issuer:				
Texas	\$ 299	\$ 2,467	\$2,766	25 %
California	115	1,693	1,808	16
New York	283	1,518	1,801	16
Massachusetts	465	778	1,243	11
Tennessee	7	502	509	5
Total	\$ 1,169	\$ 6,958	\$8,127	

December 31, 2018

State of Issuer:

Texas	\$ 315	\$ 2,467	\$2,782	25 %
California	108	1,693	1,801	16
New York	231	1,518	1,749	15
Massachusetts	467	978	1,445	13
Total	\$ 1,121	\$ 6,656	\$7,777	

⁽¹⁾ Represented 5% or more of our aggregate municipal credit exposure of approximately \$11.19 billion and \$11.35 billion across our businesses as of March 31, 2019 and December 31, 2018, respectively.

⁽²⁾ Includes municipal loans which are also presented within Table 23: U.S. and Non-U.S. Loans and Leases.

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Our aggregate municipal securities exposure presented in Table 22: State and Municipal Obligors, was concentrated primarily with highly-rated counterparties, with approximately 81% of the obligors rated "AAA" or "AA" as of March 31, 2019. As of that date, approximately 22% and 78% of our aggregate municipal securities exposure was associated with general obligation and revenue bonds, respectively. The portfolios are also diversified geographically, with the states that represent our largest exposures widely dispersed across the U.S.

Additional information with respect to our assessment of OTTI of our municipal securities is provided in Note 3 to the consolidated financial statements in this Form 10-Q.

Impairment

Impairment exists when the fair value of an individual security is below its amortized cost basis. Impairment of a security is further assessed to determine whether such impairment is other-than-temporary. For AFS and HTM debt securities, we record impairment in our consolidated statement of income when management intends to sell (or may be required to sell) the securities before they recover in value, or when management expects the present value of cash flows expected to be collected from the securities to be less than the amortized cost of the impaired security (a credit loss).

We conduct periodic reviews of individual securities to assess whether OTTI exists. Our assessment of OTTI involves an evaluation of economic and security-specific factors. Such factors are based on estimates, derived by management, which contemplate current market conditions and security-specific performance. To the extent that market conditions are worse than management's expectations or due to idiosyncratic bond performance, OTTI could increase, in particular the credit-related component that would be recorded in our consolidated statement of income. Additional information with respect to OTTI, net impairment losses and gross unrealized losses is provided in Note 3 to the consolidated financial statements in this Form 10-Q.

Our evaluation of potential OTTI of structured credit securities with collateral in the U.K. and continental Europe takes into account the outcome from the Brexit referendum and other geopolitical events, and assumes no disruption of payments on these securities.

Loans and Leases**TABLE 23: U.S. AND NON- U.S. LOANS AND LEASES**

(In millions)	March 31, 2019	December 31, 2018
Domestic:		
Commercial and financial	\$ 16,451	\$ 19,479
Commercial real estate	976	874
Total domestic	17,427	20,353
Non-U.S.:		
Commercial and financial	5,954	5,436
Total loans and leases	\$ 23,381	\$ 25,789

The decrease in loans in the domestic commercial and financial segment as of March 31, 2019 compared to December 31, 2018 was primarily driven by lower levels of client overdrafts.

As of March 31, 2019 and December 31, 2018, our investment in senior secured loans totaled approximately \$4.5 billion and \$4.4 billion, respectively. In addition, we had binding unfunded commitments as of March 31, 2019 and December 31, 2018 of \$114 million and \$238 million, respectively, to participate in such syndications. The decrease in unfunded commitments is due to lower activity in the leveraged loans market in the first quarter of 2019 compared to the fourth quarter of 2018. Unfunded commitments as of

December 31, 2018 settled in the first quarter of 2019 and are now funded commitments. Additional information about these unfunded commitments is provided in Note 9 to the consolidated financial statements in this Form 10-Q.

These senior secured loans, which are primarily rated “speculative” under our internal risk-rating framework (refer to Note 4 to the consolidated financial statements in this Form 10-Q), are externally rated “BBB,” “BB” or “B,” with approximately 88% and 90% of the loans rated “BB” or “B” as of March 31, 2019 and December 31, 2018, respectively. Our investment strategy involves generally limiting our investment to larger, more liquid credits underwritten by major global financial institutions, applying our internal credit analysis process to each potential investment and diversifying our exposure by counterparty and industry segment. However, these loans have significant exposure to credit losses relative to higher-rated loans in our portfolio.

Loans to municipalities included in the commercial and financial segment were \$0.97 billion and \$0.90 billion as of March 31, 2019 and December 31, 2018, respectively.

Additional information about all of our loan and leases segments, as well as underlying classes, is provided in Note 4 to the consolidated financial statements in this Form 10-Q.

No loans were modified in troubled debt restructurings as of both March 31, 2019 and December 31, 2018.

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(In millions)	Three Months Ended March 31,	
	2019	2018
Allowance for loan and lease losses:		
Beginning balance	\$67	\$ 54
Provision for loan and lease losses ⁽¹⁾	4	—
Other ⁽²⁾	(1)	—
Ending balance	\$70	\$ 54

⁽¹⁾ The provision for loan and lease losses is primarily related to commercial and financial loans.

⁽²⁾ Consists primarily of FX translation.

We recorded a provision for loan losses of \$4 million in the first quarter of 2019 compared to less than \$1 million provision for loan losses recorded in the same period in 2018. The increase was primarily due to a higher volume of loans to non-investment grade borrowers composed of senior secured loans that we purchased in connection with our participation in loan syndications in the non-investment grade lending market.

In the first quarter of 2019, approximately \$62 million of our ALLL was related to senior secured loans included in the commercial and financial segment compared to \$46 million in the same period in 2018. As this portfolio grows and matures, our ALLL related to these loans may increase through additional provisions for credit losses. The remaining \$8 million in both the first quarter of 2019 and 2018 was related to other components of commercial and financial loans.

Cross-Border Outstandings

Cross-border outstandings are amounts payable to us by non-U.S. counterparties which are denominated in U.S. dollars or other non-local currency, as well as non-U.S. local currency claims not funded by local currency liabilities. Our cross-border outstandings consist primarily of deposits with banks; loans and lease financing, including short-duration advances; investment securities; amounts related to FX and interest rate contracts; and securities finance. In addition to credit risk, cross-border outstandings have the risk that, as a result of political or economic conditions in a country, borrowers may be unable to meet their contractual repayment obligations of principal and/or interest when due because of the unavailability of, or restrictions on, FX needed by borrowers to repay their obligations.

As market and economic conditions change, the major independent credit rating agencies may downgrade U.S. and non-U.S. financial institutions and sovereign issuers which have been, and may in the future be, significant counterparties to us, or whose financial instruments serve as collateral on which we rely for credit risk mitigation purposes, and may do so again in the future. As a result, we may be exposed to

increased counterparty risk, leading to negative ratings volatility.

The cross-border outstandings presented in Table 25: Cross-Border Outstandings, represented approximately 28% of our consolidated total assets as of both March 31, 2019 and December 31, 2018.

TABLE 25: CROSS-BORDER OUTSTANDINGS⁽¹⁾

(In millions)	Investment Securities and Other Assets	Derivatives and Securities on Loan	Total Cross-Border Outstandings
March 31, 2019			
Germany	\$ 18,962	\$ 441	\$ 19,403

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Japan	12,444	1,384	13,828
United Kingdom	11,750	1,057	12,807
Australia	4,072	512	4,584
Luxembourg	2,420	1,299	3,719
Canada	2,612	606	3,218
Ireland	1,878	1,193	3,071
France	2,479	352	2,831

December 31, 2018

Germany	\$ 20,157	\$ 489	\$ 20,646
Japan	13,985	1,084	15,069
United Kingdom	12,623	1,176	13,799
Australia	4,217	1,349	5,566
Canada	3,010	1,507	4,517
Ireland	2,019	809	2,828
France	2,495	294	2,789
Luxembourg	2,033	710	2,743

⁽¹⁾ Cross-border outstandings included countries in which we do business, and which amounted to at least 1% of our consolidated total assets as of the dates indicated.

As of March 31, 2019, aggregate cross-border outstandings in Switzerland amounted to between 0.75% and 1% of our consolidated assets, at approximately \$1.85 billion. As of December 31, 2018, there were no countries whose aggregate cross-border outstandings amounted to between 0.75% and 1% of our consolidated assets.

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Risk Management

In the normal course of our global business activities, we are exposed to a variety of risks, some inherent in the financial services industry, others more specific to our business activities. Our risk management framework focuses on material risks, which include the following:

- credit and counterparty risk;
- liquidity risk, funding and management;
- operational risk;
- information technology risk;
- market risk associated with our trading activities;
- market risk associated with our non-trading activities, which we refer to as asset-and-liability management, and which consists primarily of interest-rate risk;
- model risk;
- strategic risk; and
- reputational, fiduciary and business conduct risk.

Many of these risks, as well as certain of the factors underlying each of these risks that could affect our businesses and our consolidated financial statements, are discussed in detail on pages 17 to 46 included under Item 1A, Risk Factors, in our 2018 Form 10-K.

For additional information about our risk management, including our risk appetite framework and risk governance committee structure, refer to pages 79 to 83 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework" in our 2018 Form 10-K.

Credit Risk Management

We define credit risk as the risk of financial loss if a counterparty, borrower or obligor, collectively referred to as a counterparty, is either unable or unwilling to repay borrowings or settle a transaction in accordance with underlying contractual terms. We assume credit risk in our traditional non-trading lending activities, such as loans and contingent commitments, in our investment securities portfolio, where recourse to a counterparty exists, and in our direct and indirect trading activities, such as principal securities lending and FX and indemnified agency securities lending. We also assume credit risk in our day-to-day treasury and securities and other settlement operations, in the form of deposit placements and other cash balances, with central banks or private sector institutions.

For additional information about our credit risk management framework, including our core policies and principles, structure and organization, credit ratings, risk parameter estimates, credit risk mitigation, credit limits, reporting, monitoring, controls and reserve

for credit losses, refer to pages 83 to 88 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework", in our 2018 Form 10-K.

Liquidity Risk Management

Our liquidity framework contemplates areas of potential risk based on our activities, size and other appropriate risk-related factors. In managing liquidity risk we employ limits, maintain established metrics and early warning indicators and perform routine stress testing to identify potential liquidity needs. This process involves the evaluation of a combination of internal and external scenarios which assist us in measuring our liquidity position and in identifying potential increases in cash needs or decreases in available sources of cash, as well as the potential impairment of our ability to access the global capital markets.

We manage our liquidity on a global, consolidated basis. We also manage liquidity on a stand-alone basis at the Parent Company, as well as at certain branches and subsidiaries of State Street Bank. State Street

Bank generally has access to markets and funding sources limited to banks, such as the federal funds market and the Federal Reserve's discount window. The Parent Company is managed to a more conservative liquidity profile, reflecting narrower market access. Additionally, the Parent Company typically holds, or has direct access to, primarily through State Street Intermediate Funding, LLC (SSIF), a direct subsidiary of the Parent Company, and the support agreement, as discussed in the "Uses of Liquidity" section of this Management's Discussion and Analysis, enough cash to meet its current debt maturities and cash needs, as well as those projected over the next one-year period. Reference our SPOE Strategy as discussed in the "Uses of Liquidity" section of this Management's Discussion and Analysis. Absent financial distress at the Parent Company, the liquid assets available at SSIF continue to be available to the Parent Company. As of March 31, 2019, the Parent Company and State Street Bank had no senior notes or subordinated debentures outstanding that will mature in the next twelve months.

As a systemically important financial institution, our liquidity risk management activities are subject to heightened and evolving regulatory requirements, including interpretations of those requirements, under specific U.S. and international regulations and also resulting from published and unpublished guidance, supervisory activities, such as stress tests, resolution planning, examinations and other regulatory interactions. Satisfaction of these requirements could, in some cases, result in changes in the composition of our investment portfolio, reduced NII or NIM, a reduction in the level of certain business activities or modifications to the way in which we deliver our products and services. If we fail to meet regulatory requirements to the

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satisfaction of our regulators, we could receive negative regulatory stress test results, incur a resolution plan deficiency or determination of a non-credible resolution plan or otherwise receive an adverse regulatory finding. Our efforts to satisfy, or our failure to satisfy, these regulatory requirements could materially adversely affect our business, financial condition or results of operations.

For additional information on our liquidity risk management, as well as liquidity risk metrics, refer to pages 88 to 92 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operation, in our 2018 Form 10-K. For additional information on our liquidity ratios, including LCR and the net stable funding ratio, refer to pages 7 to 8 included under Item 1, Business, in our 2018 Form 10-K.

Asset Liquidity

Central to the management of our liquidity is asset liquidity, which consists primarily of unencumbered highly liquid securities, cash and cash equivalents reported on our consolidated statement of condition. We restrict the eligibility of securities to be characterized as asset liquidity to U.S. Government and federal agency securities (including MBS), securities of selected non-U.S. Governments and supranational organizations as well as certain other high-quality securities which generally are more liquid than other types of assets even in times of stress. As a banking organization, we are subject to a minimum LCR under the LCR rule approved by U.S. banking regulators. The LCR is intended to promote the short-term resilience of internationally active banking organizations, like us, to improve the banking industry's ability to absorb shocks arising from market stress over a 30 calendar day period and improve the measurement and management of liquidity risk. The LCR measures an institution's HQLA against its net cash outflows. HQLA primarily consists of unencumbered cash and certain high quality liquid securities that qualify for inclusion under the LCR rule. The LCR was fully implemented beginning on January 1, 2017. We report LCR to the Federal Reserve daily. For the quarters ended March 31, 2019 and December 31, 2018, daily average LCR for the Parent Company was 110% and 108%, respectively. The average HQLA for the Parent Company under the LCR final rule was \$93.50 billion and \$91.67 billion, post-prescribed haircuts, for the quarters ended March 31, 2019 and December 31, 2018, respectively.

We maintained average cash balances in excess of regulatory requirements governing deposits with the Federal Reserve of approximately \$39.26 billion at the Federal Reserve, the ECB and other non-U.S. central banks for the quarter ended March 31, 2019, compared to \$44.17 billion for the quarter ended December 31,

2018. The lower levels of average cash balances with central banks reflect levels of client deposits.

Liquid securities carried in our asset liquidity include securities pledged without corresponding advances from the Federal Reserve Bank of Boston (FRBB), the FHLB and other non-U.S. central banks. State Street Bank is a member of the FHLB. This membership allows for advances of liquidity in varying terms against high-quality collateral, which helps facilitate asset-and-liability management. As of March 31, 2019, we had no outstanding borrowings from the FHLB. As of December 31, 2018, we had approximately \$2 billion of outstanding borrowings from the FHLB.

Access to primary, intra-day and contingent liquidity provided by these utilities is an important source of contingent liquidity with utilization subject to underlying conditions. As of March 31, 2019 and December 31, 2018, we had no outstanding primary credit borrowings from the FRBB discount window or any other central bank facility.

In addition to the securities included in our asset liquidity, we have significant amounts of other unencumbered investment securities. These securities are available sources of liquidity, although not as rapidly deployed as those included in our asset liquidity.

The average fair value of total unencumbered securities was \$70.17 billion for the quarter ended March 31, 2019 compared to \$65.94 billion for the quarter ended December 31, 2018.

Uses of Liquidity

Significant uses of our liquidity could result from the following: withdrawals of client deposits; draw-downs by our custody clients of lines of credit; advances to clients to settle securities transactions; or other permitted purposes. Such circumstances would generally arise under stress conditions including deterioration in credit ratings. A recurring significant use of our liquidity involves our deployment of HQLA from our investment portfolio to post collateral to financial institutions serving as sources of securities under our enhanced custody program.

We had unfunded commitments to extend credit with gross contractual amounts totaling \$29.95 billion and \$28.95 billion and standby letters of credit totaling \$2.97 billion and \$2.99 billion as of March 31, 2019 and December 31, 2018, respectively. These amounts do not reflect the value of any collateral. As of March 31, 2019, approximately 75% of our unfunded commitments to extend credit and 29% of our standby letters of credit expire within one year. Since many of our commitments are expected to expire or renew without being drawn upon, the gross contractual amounts do not necessarily represent our future cash requirements.

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Resolution Planning

State Street, like other bank holding companies with total consolidated assets of \$50 billion or more, periodically submits a plan for rapid and orderly resolution in the event of material financial distress or failure, commonly referred to as a resolution plan or a living will, to the Federal Reserve and the FDIC under Section 165(d) of the Dodd-Frank Act. Through resolution planning, we seek, in the event of our insolvency, to maintain State Street Bank's role as a key infrastructure provider within the financial system, while minimizing risk to the financial system and maximizing value for the benefit of our stakeholders. We have and will continue to focus management attention and resources to meet regulatory expectations with respect to resolution planning.

We submitted our 2017 resolution plan describing our preferred resolution strategy to the Federal Reserve and FDIC on June 30, 2017. Subsequently, the Federal Reserve and FDIC extended the next resolution plan filing deadline for eight large domestic banks, including us, to July 1, 2019. The agencies completed their review of our 2017 165(d) resolution plan in December 2017 and found no deficiencies or shortcomings in the plan.

In the event of material financial distress or failure, our preferred resolution strategy is the SPOE Strategy. For additional information about the SPOE Strategy, refer to pages 11 and 12 included under Item 1, Business, in our 2018 Form 10-K. The SPOE Strategy provides that prior to the bankruptcy of the Parent Company and pursuant to a support agreement among the Parent Company, SSIF, our Beneficiary Entities (as defined below) and certain other of our entities, SSIF is obligated, up to its available resources, to recapitalize and/or provide liquidity to State Street Bank and our other entities benefiting from such capital and/or liquidity (collectively with State Street Bank, "Beneficiary Entities"), in amounts designed to prevent the Beneficiary Entities from themselves entering into resolution proceedings. Following the recapitalization of, or provision of liquidity to the Beneficiary Entities, the Parent Company would enter into a bankruptcy proceeding under the U.S. Bankruptcy Code. The Beneficiary Entities and our subsidiaries would be transferred to a newly organized holding company held by a reorganization trust for the benefit of the Parent Company's claimants.

Under the support agreement, the Parent Company has pre-funded SSIF by contributing certain of its assets (primarily its liquid assets, cash deposits, debt investments, investments in marketable securities and other cash and non-cash equivalent investments) to SSIF contemporaneous with entering into the support agreement and will continue to contribute such assets, to the extent available, on an on-going basis. In consideration for these contributions, SSIF has agreed

in the support agreement to provide capital and liquidity support to the Parent Company and all of the Beneficiary Entities in accordance with the Parent Company's capital and liquidity policies. Under the support agreement, the Parent Company is only permitted to retain certain amounts of cash needed to meet its upcoming obligations and to fund expenses during a potential bankruptcy proceeding. SSIF has provided the Parent Company with a committed credit line and issued (and may issue) one or more promissory notes to the Parent Company (the "Parent Company Funding Notes") that together are intended to allow us to continue to meet our obligations throughout the period prior to the occurrence of a "Recapitalization Event" (as defined below). The support agreement does not contemplate that SSIF is obligated to maintain any specific level of resources and SSIF may not have sufficient resources to implement the SPOE Strategy.

In the event a Recapitalization Event occurs, the obligations outstanding under the Parent Company Funding Notes would automatically convert into or be exchanged for capital contributed to SSIF. The obligations of the Parent Company and SSIF under the support agreement are secured through a security agreement that grants a lien on the assets that the Parent Company and SSIF would use to fulfill their

obligations under the support agreement to the Beneficiary Entities. SSIF is a distinct legal entity separate from the Parent Company and the Parent Company's other affiliates.

In accordance with its policies, we are required to monitor, on an ongoing basis, the capital and liquidity needs of State Street Bank and the other Beneficiary Entities. To support this process, we have established a trigger framework that identifies key actions that would need to be taken or decisions that would need to be made if certain events tied to our financial condition occur. In the event that we experience material financial distress, the support agreement requires us to model and calculate certain capital and liquidity triggers on a regular basis to determine whether or not the Parent Company should commence preparations for a bankruptcy filing and whether or not a Recapitalization Event has occurred.

Upon the occurrence of a Recapitalization Event: (1) SSIF would not be authorized to provide any further liquidity to the Parent Company; (2) the Parent Company would be required to contribute to SSIF any remaining assets it is required to contribute to SSIF under the support agreement; (3) SSIF would be required to provide capital and liquidity support to the Beneficiary Entities to support such entities' continued operation; and (4) the Parent Company would be expected to commence Chapter 11 proceedings under the U.S. Bankruptcy Code. No person or entity, other than a party to the support agreement, should rely, including in evaluating any of our entities from a

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creditor's perspective or determining whether to enter into a contractual relationship with any of our entities, on any of our affiliates being or remaining a Beneficiary Entity or receiving capital or liquidity support pursuant to the support agreement.

A "Recapitalization Event" is defined under the support agreement as the earlier occurrence of one or more capital and liquidity thresholds being breached or the authorization by the Parent Company's Board of Directors for the Parent Company to commence bankruptcy proceedings. These thresholds are set at levels intended to provide for the availability of sufficient capital and liquidity to enable an orderly resolution without extraordinary government support. The SPOE Strategy and the obligations under the support agreement may result in the recapitalization of State Street Bank and the commencement of bankruptcy proceedings by the Parent Company at an earlier stage of financial stress than might otherwise occur without such mechanisms in place. An expected effect of the SPOE Strategy and applicable TLAC regulatory requirements is that losses will be imposed on the Parent Company shareholders and the holders of long-term debt and other forms of TLAC securities currently outstanding or issued in the future by the Parent Company, as well as on any other Parent Company creditors, before any of its losses are imposed on the holders of the debt securities of the Parent Company's operating subsidiaries or any of their depositors or creditors, or before U.S. taxpayers are put at risk.

There can be no assurance that credit rating agencies, in response to our 2017 resolution plan or the support agreement, will not downgrade, place on negative watch or change their outlook on our debt credit ratings, generally or on specific debt securities. Any such downgrade, placement on negative watch or change in outlook could adversely affect our cost of borrowing, limit our access to the capital markets or result in restrictive covenants in future debt agreements and could also adversely impact the trading prices, or the liquidity, of our outstanding debt securities.

State Street Bank is also required to submit annually to the FDIC a plan for resolution in the event of its failure, referred to as an Insured Depository Institution (IDI) plan. We filed our most recent IDI plan on June 28, 2018.

Funding

Deposits

We provide products and services including custody, accounting, administration, daily pricing, FX services, cash management, financial asset management, securities finance and investment advisory services. As a provider of these products and services, we generate client deposits, which have generally provided a stable, low-cost source of funds. As a global custodian, clients place deposits with our

entities in various currencies. As of both March 31, 2019 and December 31, 2018, approximately 60% of our average total deposit balances were denominated in U.S. dollars, approximately 20% in EUR, 10% in GBP and 10% in all other currencies.

Short-Term Funding

Our on-balance sheet liquid assets are also an integral component of our liquidity management strategy. These assets provide liquidity through maturities of the assets, but more importantly, they provide us with the ability to raise funds by pledging the securities as collateral for borrowings or through outright sales. In addition, our access to the global capital markets gives us the ability to source incremental funding from wholesale investors. As discussed earlier under "Asset Liquidity," State Street Bank's membership in the FHLB allows for advances of liquidity with varying terms against high-quality collateral.

Short-term secured funding also comes in the form of securities lent or sold under agreements to repurchase. These transactions are short-term in nature, generally overnight and are collateralized by high-quality investment securities. These balances were \$1.42 billion and \$1.08 billion as of March 31, 2019 and December 31, 2018, respectively.

State Street Bank currently maintains a line of credit with a financial institution of CAD 1.40 billion, or approximately \$1.05 billion, as of March 31, 2019, to support its Canadian securities processing operations. The line of credit has no stated termination date and is cancelable by either party with prior notice. As of both March 31, 2019 and December 31, 2018, there was no balance outstanding on this line of credit.

Long-Term Funding

We have the ability to issue debt and equity securities under our current universal shelf registration statement to meet current commitments and business needs, including accommodating the transaction and cash management needs of our clients. In addition, State Street Bank also has current authorization from the Board to issue up to \$5 billion in unsecured senior debt and an additional \$500 million of subordinated debt.

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Agency Credit Ratings

Our ability to maintain consistent access to liquidity is fostered by the maintenance of high investment grade ratings as measured by the major independent credit rating agencies. Factors essential to maintaining high credit ratings include:

diverse and stable core earnings;
relative market position;
strong risk management;
strong capital ratios;
diverse liquidity sources, including the global capital markets and client deposits;
strong liquidity monitoring procedures; and
preparedness for current or future regulatory developments.

High ratings limit borrowing costs and enhance our liquidity by:

providing assurance for unsecured funding and depositors;
increasing the potential market for our debt and improving our ability to offer products;
serving markets; and
engaging in transactions in which clients value high credit ratings.

A downgrade or reduction of our credit ratings could have a material adverse effect on our liquidity by restricting our ability to access the capital markets, which could increase the related cost of funds. In turn, this could cause the sudden and large-scale withdrawal of unsecured deposits by our clients, which could lead to draw-downs of unfunded commitments to extend credit or trigger requirements under securities purchase commitments; or require additional collateral or force terminations of certain trading derivative contracts.

A majority of our derivative contracts have been entered into under bilateral agreements with counterparties who may require us to post collateral or terminate the transactions based on changes in our credit ratings. We assess the impact of these arrangements by determining the collateral that would be required assuming a downgrade by all rating agencies. The additional collateral or termination payments related to our net derivative liabilities under these arrangements that could have been called by counterparties in the event of a downgrade in our credit ratings below levels specified in the agreements is provided in Note 7 to the consolidated financial statements in this Form 10-Q. Other funding sources, such as secured financing transactions and other margin requirements, for which there are no explicit triggers, could also be adversely affected.

Operational Risk Management

Operational risk is the risk of loss resulting from inadequate or failed internal processes, people and systems or from external events. Operational risk encompasses fiduciary risk and legal risk. Fiduciary risk is defined as the risk that we fail to properly exercise our fiduciary duties in our provision of products or services to clients. Legal risk is the risk of loss resulting from failure to comply with laws and contractual obligations as well as prudent ethical standards in business practices in addition to exposure to litigation from all aspects of our activities.

For additional information about our operational risk framework, refer to pages 93 to 96 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework", in our 2018 Form 10-K.

Information Technology Risk Management

We define information technology risk as the risk associated with the use, ownership, operation, involvement, influence and adoption of information technology. Information technology risk includes risks

potentially triggered by technology non-compliance with regulatory obligations, information security and privacy incidents, business disruption, technology internal control and process gaps, technology operational events and adoption of new business technologies.

For additional information about our information technology risk framework, refer to pages 96 to 97 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management" in our 2018 Form 10-K.

Market Risk Management

Market risk is defined by U.S. banking regulators as the risk of loss that could result from broad market movements, such as changes in the general level of interest rates, credit spreads, FX rates or commodity prices. We are exposed to market risk in both our trading and certain of our non-trading, or asset-and-liability management, activities.

Information about the market risk associated with our trading activities is provided below under "Trading Activities." Information about the market risk associated with our non-trading activities, which consists primarily of interest-rate risk, is provided below under "Asset-and-Liability Management Activities."

Trading Activities

In the conduct of our trading activities, we assume market risk, the level of which is a function of our overall risk appetite, business objectives and liquidity needs, our clients' requirements and market volatility, and our execution against those factors.

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For additional information about the market risk associated with our trading activities, refer to pages 97 to 98 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, in our 2018 Form 10-K.

As part of our trading activities, we assume positions in the FX and interest-rate markets by buying and selling cash instruments and entering into derivative instruments, including FX forward contracts, FX and interest-rate options and interest-rate swaps, interest-rate forward contracts, and interest-rate futures. As of March 31, 2019, the notional amount of these derivative contracts was \$2.30 trillion, of which \$2.29 trillion was composed of FX forward, swap and spot contracts. We seek to match positions closely with the objective of minimizing related currency and interest-rate risk. All FX contracts are valued daily at current market rates.

Value-at-Risk and Stressed Value-at-Risk

We use a variety of risk measurement tools and methodologies, including VaR, which is an estimate of potential loss for a given period within a stated statistical confidence interval. We use a risk measurement methodology to measure trading-related VaR daily. We have adopted standards for measuring trading related VaR, and we maintain regulatory capital for market risk associated with currently applicable bank regulatory market risk requirements. Our regulatory VaR-based measure is calculated based on historical volatilities of market risk factors during a two-year observation period calibrated to a one-tail, 99% confidence interval and a ten-business-day holding period.

We calculate a stressed VaR-based measure using the same model we use to calculate VaR, but with model inputs calibrated to historical data from a range of continuous twelve-month periods that reflect significant financial stress. The stressed VaR model identifies the second-worst outcome occurring in the worst continuous one-year rolling period since July 2007. This stressed VaR meets the regulatory requirement as the rolling ten-day period with an outcome that is worse than 99% of other outcomes during that twelve-month period of financial stress. For each portfolio, the stress period is determined algorithmically by seeking the one-year time horizon that produces the largest ten-business-day VaR from within the available historical data. This historical data set includes the financial crisis of 2008, the highly volatile period surrounding the Eurozone sovereign debt crisis and the Standard & Poor's downgrade of U.S. Treasury debt in August 2011. As the historical data set used to determine the stress period expands over time, future market stress events will be automatically incorporated.

For additional information about our VaR measurement tools and methodologies, refer to pages

99 to 103 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, in our 2018 Form 10-K.

Stress Testing

We have a corporate-wide stress testing program in place that incorporates an array of techniques to measure the potential loss we could suffer in a hypothetical scenario of adverse economic and financial conditions. We also monitor concentrations of risk such as concentration by branch, risk component, and currency pairs. We conduct stress testing on a daily basis based on selected historical stress events that are relevant to our positions in order to estimate the potential impact to our current portfolio should similar market conditions recur, and we also perform stress testing as part of the Federal Reserve's Comprehensive Capital Analysis and Review (CCAR) process. Stress testing is conducted, analyzed and reported at the corporate, trading desk, division and risk-factor level (for example, exchange risk, interest-rate risk and volatility risk).

Stress testing results and limits are actively monitored on a daily basis by Enterprise Risk Management (ERM) and reported to the Trading and Markets Risk Committee (TMRC). Limit breaches are addressed by ERM risk managers in conjunction with the business units, escalated as appropriate, and reviewed by the

TMRC if material. In addition, we have established several action triggers that prompt immediate review by management and the implementation of a remediation plan.

Validation and Back-Testing

We perform frequent back-testing to assess the accuracy of our VaR-based model in estimating loss at the stated confidence level. This back-testing involves the comparison of estimated VaR model outputs to daily, actual profit-and-loss (P&L) outcomes, observed from daily market movements. We back-test our VaR model using “clean” P&L, which excludes non-trading revenue such as fees, commissions and NII, as well as estimated revenue from intra-day trading.

Our VaR definition of trading losses excludes items that are not specific to the price movement of the trading assets and liabilities themselves, such as fees, commissions, changes to reserves and gains or losses from intra-day activity.

We had no back-testing exceptions in the quarters ended March 31, 2019, December 31, 2018 and March 31, 2018.

The following tables present VaR and stressed VaR associated with our trading activities for covered positions held during the quarters ended March 31, 2019, December 31, 2018 and March 31, 2018. As of March 31, 2019, December 31, 2018 and March 31, 2018, as measured by our VaR methodology, a covered

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position is generally defined by U.S. banking regulators as an on-or off-balance sheet position associated with the organization's trading activities that is free of any restrictions on its tradability, but does not include intangible assets, certain credit derivatives recognized as guarantees and certain equity positions not publicly traded.

Diversification effect in the table below represents the difference between total VaR and the sum of the VaRs for each trading activity. This effect arises because the trading activities are not perfectly correlated.

TABLE 26: TEN-DAY VALUE-AT-RISK ASSOCIATED WITH TRADING ACTIVITIES FOR COVERED POSITIONS

	Three Months Ended									As of March 31, 2019	As of December 31, 2018	As of March 31, 2018
	March 31, 2019			December 31, 2018			March 31, 2018					
(In thousands)	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	VaR	VaR	VaR
Global Markets	\$10,030	\$18,397	\$4,201	\$10,459	\$19,160	\$3,721	\$6,496	\$11,390	\$2,967	\$16,571	\$10,588	\$4,233
Global Treasury	614	2,615	207	1,281	3,579	392	764	1,940	100	865	1,354	1,187
Diversification	(772)	(2,738)	(157)	(1,100)	(3,348)	278	(640)	(1,982)	513	(939)	(1,435)	(1,309)
Total VaR	\$9,872	\$18,274	\$4,251	\$10,640	\$19,391	\$4,391	\$6,620	\$11,348	\$3,580	\$16,497	\$10,507	\$4,111

TABLE 27: TEN-DAY STRESSED VALUE-AT-RISK ASSOCIATED WITH TRADING ACTIVITIES FOR COVERED POSITIONS

	Three Months Ended									As of March 31, 2019	As of December 31, 2018	As of March 31, 2018
	March 31, 2019			December 31, 2018			March 31, 2018					
(In thousands)	Avg.	Max.	Min.	Avg.	Max.	Min.	Avg.	Max.	Min.	Stressed VaR	Stressed VaR	Stressed VaR
Global Markets	\$26,810	\$49,359	\$15,052	\$30,678	\$58,221	\$14,875	\$34,136	\$56,764	\$20,411	\$39,238	\$26,512	\$45,984
Global Treasury	4,999	9,530	1,953	4,495	8,896	1,838	4,118	10,177	342	6,761	7,683	7,024
Diversification	(5,426)	(10,857)	(1,710)	(4,804)	(8,898)	(1,818)	(4,194)	(10,644)	(275)	(8,592)	(7,919)	(8,019)
Total VaR	\$26,383	\$48,032	\$15,295	\$30,369	\$58,219	\$14,895	\$34,060	\$56,297	\$20,478	\$37,407	\$26,276	\$44,989

The three month average of our stressed VaR-based measure was approximately \$26 million for the quarter ended March 31, 2019 compared to an average of approximately \$30 million for the quarter ended December 31, 2018 and \$34 million for the quarter ended March 31, 2018. The decrease in the stressed VaR is primarily attributed to lower interest-rate basis risk in emerging markets.

The VaR-based measures presented in the preceding tables are primarily a reflection of the overall level of market volatility and our appetite for taking market risk in our trading activities. Overall levels of volatility have been low both on an absolute basis and relative to the historical information observed at the beginning of the period used for the calculations.

We may in the future modify and adjust our models and methodologies used to calculate VaR and stressed VaR, subject to regulatory review and approval, and these modifications and adjustments may result in changes in our VaR-based and stressed VaR-based measures. The following tables present the VaR and stressed-VaR associated with our trading activities attributable to FX risk, interest-rate risk and volatility risk as of March 31, 2019, December 31, 2018 and March 31, 2018. Diversification effect in the table below represents the difference between total VaR and the sum of the VaRs for each risk category. This effect arises because the risk categories are not perfectly correlated.

Table of Contents**MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS****TABLE 28: TEN-DAY VALUE-AT-RISK ASSOCIATED WITH TRADING ACTIVITIES BY RISK FACTOR FOR COVERED POSITIONS⁽¹⁾**

(In thousands)	As of March 31, 2019			As of December 31, 2018			As of March 31, 2018		
	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk
By component:									
Global Markets	\$3,837	\$14,401	\$ 327	\$2,679	\$11,850	\$	-\$2,407	\$3,806	\$ 243
Global Treasury	47	836	—	53	1,377	—	62	1,148	—
Diversification	(62)	(746)	—	(39)	(1,436)	—	(54)	(1,575)	—
Total VaR	\$3,822	\$14,491	\$ 327	\$2,693	\$11,791	\$	-\$2,415	\$3,379	\$ 243

TABLE 29: TEN-DAY STRESSED VALUE-AT-RISK ASSOCIATED WITH TRADING ACTIVITIES BY RISK FACTOR FOR COVERED POSITIONS⁽¹⁾

(In thousands)	As of March 31, 2019			As of December 31, 2018			As of March 31, 2018		
	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk	Foreign Exchange Risk	Interest Rate Risk	Volatility Risk
By component:									
Global Markets	\$12,870	\$45,137	\$ 421	\$10,465	\$23,324	\$	-\$10,520	\$44,416	\$ 273
Global Treasury	126	7,121	—	74	8,202	—	126	7,173	—
Diversification	(162)	(10,467)	—	(132)	(7,835)	—	(225)	(8,218)	—
Total VaR	\$12,834	\$41,791	\$ 421	\$10,407	\$23,691	\$	-\$10,421	\$43,371	\$ 273

⁽¹⁾ For purposes of risk attribution by component, FX refers only to the risk from market movements in period-end rates. Forwards, futures, options and swaps with maturities greater than period-end have embedded interest-rate risk that is captured by the measures used for interest-rate risk. Accordingly, the interest-rate risk embedded in these FX instruments is included in the interest-rate risk component.

Asset and Liability Management Activities

The primary objective of asset and liability management is to provide sustainable NII under varying economic conditions, while protecting the economic value of the assets and liabilities carried in our consolidated statement of condition from the adverse effects of changes in interest rates. While many market factors affect the level of NII and the economic value of our assets and liabilities, one of the most significant factors is our exposure to movements in interest rates. Most of our NII is earned from the investment of client deposits generated by our businesses. We invest these client deposits in assets that conform generally to the characteristics of our balance sheet liabilities, including the currency composition of our significant non-U.S. dollar denominated client liabilities.

We quantify NII sensitivity using an earnings simulation model that includes our expectations for new business growth, changes in balance sheet mix and investment portfolio positioning. This measure compares our baseline view of NII over a twelve-month horizon, based on our internal forecast of interest rates, to a wide range of instantaneous and gradual rate shocks. EVE sensitivity is a discounted cash flow model designed to estimate the fair value of assets and liabilities under a series of interest rate shocks over a long-term horizon. Each approach is routinely monitored as market conditions change and within internally approved risk limits and guidelines.

For additional information about our Asset-and-Liability Management Activities, refer to pages 103 to 104 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, in our 2018 Form 10-K.

In the table below, we report the expected change in NII over the next twelve months from +/-100 bps instantaneous shocks to all tenors on the yield curves. We also shock the short-end through a 100 basis point change to rates three months and less with a gradual reduction to a zero basis point shock at the five

year tenor. These are referred to as "short-end shocks" in the NII sensitivity table. We separately shock the long-end 100 basis points from the five year tenor and longer, with a gradual reduction to a zero basis point shock at the three month tenor. These are referred to as "long-end shocks" in the NII sensitivity table. Each scenario assumes no management action is taken to mitigate the adverse effects of interest rate changes on our financial performance. While investment securities balances can fluctuate with the level of rates as prepayment assumptions change, our deposit balances remain consistent with the baseline.

TABLE 30: NET INTEREST INCOME SENSITIVITY

(In millions)	March 31, 2019	March 31, 2018
Rate change:	Benefit	(Exposure)
Parallel shifts:		
+100 bps shock	\$341	\$ 524
-100 bps shock	(142)	(359)
Steeper yield curve:		
+100 bps long-end shock	109	162
-100 bps short-end shock	2	(180)
Flatter yield curve:		
+100 bps short-end shock	239	369
-100 bps long-end shock	(137)	(177)

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As of March 31, 2019, NII sensitivity remains positioned to benefit from rising interest-rates. Compared to March 31, 2018, our NII is less sensitive to instantaneous shifts in both higher and lower rate scenarios. For the short-end shocks, the reduction in NII sensitivity was driven by changes to the U.S. deposit composition and increasing pricing betas. For the long-end shocks, the reduction in NII sensitivity was driven by a continued shift toward more fixed-rate securities in the investment portfolio.

We also measure how much of the NII sensitivity change is a result of shifts in U.S. and non-U.S. rates, as shown in the table below.

TABLE 31: NET INTEREST INCOME SENSITIVITY BY CURRENCY

(In millions)	March 31, 2019		
	U.S. Dollar	All Other Currencies	Total
Rate change:	Benefit (Exposure)		
Parallel shifts:			
+100 bps shock	\$103	\$ 238	\$341
-100 bps shock	(165)	23	(142)

(In millions)	March 31, 2018		
	U.S. Dollar	All Other Currencies	Total
Rate change:	Benefit (Exposure)		
Parallel shifts:			
+100 bps shock	\$278	\$ 246	\$524
-100 bps shock	(368)	9	(359)

Compared to March 31, 2018, our U.S. rate sensitivity has decreased driven by changes to our deposit composition and rising pricing betas along with adding more fixed-rate securities to the investment portfolio. This has also resulted in the majority of our current U.S. rate impacts to be driven by the long-end of the curve. Non-U.S. rate sensitivities are largely unchanged versus March 31, 2018. The majority of the benefit to higher non-U.S. rates is driven by the short-end of the curve given deposit pricing expectations for currencies such as Euro and Sterling.

The following table highlights our EVE sensitivity to a +/-200 bps instantaneous rate shock, relative to spot interest rates. Management compares the change in EVE sensitivity against our aggregate tier 1 and tier 2 risk-based capital, calculated in conformity with current applicable regulatory requirements. EVE sensitivity is dependent on the timing of interest and principal cash flows. Also, the measure only evaluates the spot balance sheet and does not include the impact of new business assumptions.

TABLE 32: ECONOMIC VALUE OF EQUITY SENSITIVITY

(In millions)	March 31, March 31,	
	2019	2018
Rate change:	Benefit (Exposure)	
+200 bps shock	\$(1,615)	\$(1,375)
-200 bps shock	605	145

As of March 31, 2019, EVE sensitivity remains exposed to upward shifts in interest rates. Compared to March 31, 2018, the change in the up 200 bps instantaneous shock was driven by investment portfolio purchases in fixed-rate securities, partially offset by lower long-end U.S. rates. The change in the down 200 bps instantaneous shock was primarily due to a modeling enhancement implemented in the second quarter of 2018 for negative rate currencies. The modeling enhancement allows for interest rate shocks to go below zero for certain currencies, such as Euro, where central banks have allowed negative rates. The March 31, 2018 position in the down 200 bps shock scenario, which does not reflect the modeling enhancement,

would have increased approximately \$1 billion under the new modeling approach. This update aligns our modeling approaches for negative rates in both EVE and NII sensitivity simulations.

Model Risk Management

The use of models is widespread throughout the financial services industry, with large and complex organizations relying on sophisticated models to support numerous aspects of their financial decision making. The models contemporaneously represent both a significant advancement in financial management and a source of risk. In large banking organizations like us, model results influence business decisions, and model failure could have a harmful effect on our financial performance. As a result, the Model Risk Management Framework seeks to mitigate our model risk.

For additional information about our model risk management framework, including our governance and model validation, refer to pages 104 to 105 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework", in our 2018 Form 10-K.

Strategic Risk Management

We define strategic risk as the current or prospective impact on earnings or capital arising from adverse business decisions, improper implementation of strategic initiatives, or lack of responsiveness to industry-wide changes. Strategic risks are influenced by changes in the competitive environment; decline in market performance or changes in our business activities; and the potential secondary impacts of reputational risks, not already captured as market, interest rate, credit, operational, model or liquidity risks. We incorporate strategic risk into our assessment of our business plans and risk and capital management

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processes. Active management of strategic risk is an integral component of all aspects of our business. For additional information about our strategic risk management framework, refer to page 105 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework", in our 2018 Form 10-K.

Capital

Managing our capital involves evaluating whether our actual and projected levels of capital are commensurate with our risk profile, are in compliance with all applicable regulatory requirements and are sufficient to provide us with the financial flexibility to undertake future strategic business initiatives. We assess capital adequacy based on relevant regulatory capital requirements, as well as our own internal capital goals, targets and other relevant metrics.

Governance

We have a hierarchical structure supporting appropriate committee review of relevant risk and capital information. The ongoing responsibility for capital management rests with our Treasurer. The Capital Management group within Global Treasury is responsible for the Capital Policy and guidelines, development of the Capital Plan, the oversight of global capital management and optimization. The Management Risk and Capital Committee (MRAC) provides oversight of our capital management, our capital adequacy, our internal targets and the expectations of the major independent credit rating agencies. In addition, MRAC approves our balance sheet strategy and related activities. The Board's Risk Committee (RC) assists the Board in fulfilling its oversight responsibilities related to the assessment and management of risk and capital. Our Capital Policy is reviewed and approved annually by the Board's RC. For additional information about our capital, refer to pages 105 to 112 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, in our 2018 Form 10-K.

Global Systemically Important Bank

We are one among a group of 29 institutions worldwide that have been identified by the Financial Stability Board and the Basel Committee on Banking Supervision as G-SIBs. Our designation as a G-SIB is based on a number of factors, as evaluated by banking regulators, and requires us to maintain an additional capital surcharge above the minimum capital ratios set forth in the Basel III final rule. In addition to the Basel III final rule, we are subject to the Federal Reserve's final rule imposing a capital surcharge on U.S. G-SIBs. The surcharge requirements within the final rule began to phase-in on January 2016 and became fully effective on January 1, 2019. The eight

U.S. banks deemed to be G-SIBs, including us, are required to calculate the G-SIB surcharge annually according to the following two methods, and be bound by the higher of the two:

Method 1: Assesses systemic importance based upon five equally-weighted components: size, interconnectedness, complexity, cross-jurisdictional activity and substitutability; or

Method 2: Alters the calculation from Method 1 by factoring in a wholesale funding score in place of substitutability and applying a 2x multiplier to the sum of the five components.

Method 2 currently is the binding methodology for us, and our applicable surcharge for 2019 was calculated to be 1.5%, which is based on a calculation date of December 31, 2017. Assuming a countercyclical buffer of 0%, the minimum capital ratios as of January 1, 2019, including a capital conservation buffer of 2.5% and a G-SIB surcharge of 1.5%, are 8.5% for CET1 capital, 10.0% for tier 1 risk-based capital and 12.0% for total risk-based capital, in order for us to make capital distributions and discretionary bonus payments without limitation. Based on a calculation date of December 31, 2018, our G-SIB surcharge for 2020 will be reduced to 1.0%. This reduction was driven by 2018 strategic balance sheet repositioning and risk reduction actions.

Further, like all other U.S. G-SIBs, we are also currently subject to a 2.0% leverage buffer under the Basel III final rule, subject to the Federal Reserve's proposed changes to the SLR. If we fail to exceed the 2.0% leverage buffer, we will be subject to increased restrictions (depending upon the extent of the shortfall) regarding capital distributions and discretionary executive bonus payments. Not all of our competitors have similarly been designated as systemically important nor are all of them subject to the same degree of regulation as a bank or financial holding company, and therefore some of our competitors may not be subject to the same capital liquidity and other regulatory requirements.

Regulatory Capital

We and State Street Bank, as advanced approaches banking organizations, are subject to the U.S. Basel III framework. Provisions of the Basel III final rule became effective with full implementation on January 1, 2019. We are also subject to the final market risk capital rule issued by U.S. banking regulators effective as of January 2013.

The Basel III final rule provides for two frameworks for monitoring capital adequacy: the "standardized" approach and the "advanced" approaches, applicable to advanced approaches banking organizations, like us. The standardized approach prescribes standardized calculations for credit RWA, including specified risk

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weights for certain on- and off-balance sheet exposures.

The advanced approaches consist of the Advanced Internal Ratings-Based Approach used for the calculation of RWA related to credit risk, and the Advanced Measurement Approach used for the calculation of RWA related to operational risk.

The final market risk capital rule requires us to use internal models to calculate daily measures of VaR, that reflect general market risk for certain of our trading positions defined by the rule as "covered positions," as well as stressed-VaR measures to supplement the VaR measures. The rule also requires a public disclosure composed of qualitative and quantitative information about the market risk associated with our trading activities and our related VaR and stressed-VaR measures. The qualitative and quantitative information required by the rule is provided under "Market Risk" included in this Management's Discussion and Analysis.

As required by the Dodd-Frank Act, we and State Street Bank, as advanced approaches banking organizations, are subject to a permanent "capital floor," also referred to as the Collins Amendment, in the assessment of our regulatory capital adequacy, including the capital conservation buffer and countercyclical capital buffer. Our risk-based capital ratios for regulatory assessment purposes are the lower of each ratio calculated under the standardized approach and the advanced approaches.

The requirement for the capital conservation buffer became effective with full implementation on January 1, 2019. Specifically, the final rule limits a banking organization's ability to make capital distributions and discretionary bonus payments to executive officers if it fails to maintain a CET1 capital conservation buffer of more than 2.5% of total RWA and, if deployed during

periods of excessive credit growth, a CET1 countercyclical capital buffer of up to 2.5% of total RWA, above each of the minimum CET1, tier 1, and total risk-based capital ratios. The countercyclical capital buffer is currently set at zero by U.S. banking regulators. To maintain the status of the Parent Company as a financial holding company, we and our insured depository institution subsidiaries are required, among other requirements, to be "well capitalized" as defined by the Prompt Corrective Action Framework.

The specific calculation of our and State Street Bank's risk-based capital ratios changed as the provisions of the Basel III final rule related to the numerator (capital) and denominator (RWA) were phased in, and as our RWA calculated using the advanced approaches changed due to changes in methodology. These methodological changes result in differences in our reported capital ratios from one reporting period to the next that are independent of applicable changes to our capital base, our asset composition, our off-balance sheet exposures or our risk profile.

The following table presents the regulatory capital structure and related regulatory capital ratios for us and State Street Bank as of the dates indicated. We are subject to the more stringent of the risk-based capital ratios calculated under the standardized approach and those calculated under the advanced approaches in the assessment of our capital adequacy under applicable bank regulatory standards.

As a result of changes in the methodologies used to calculate our regulatory capital ratios from period to period, as the provisions of the Basel III final rule were phased in, the ratios presented in the table for each period are not directly comparable. Refer to the footnotes following the table.

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TABLE 33: REGULATORY CAPITAL STRUCTURE AND RELATED REGULATORY CAPITAL RATIOS

(Dollars in millions)	State Street				State Street Bank					
	Basel III Advanced Approaches March 31, 2019	Basel III Standardized Approach March 31, 2019	Basel III Advanced Approaches December 31, 2018(1)	Basel III Standardized Approach December 31, 2018(1)	Basel III Advanced Approaches March 31, 2019	Basel III Standardized Approach March 31, 2019	Basel III Advanced Approaches December 31, 2018(1)	Basel III Standardized Approach December 31, 2018(1)		
Common shareholders' equity:										
Common stock and related surplus	\$ 10,586	\$ 10,586	\$ 10,565	\$ 10,565	\$ 12,894	\$ 12,894	\$ 12,894	\$ 12,894		
Retained earnings	20,911	20,911	20,606	20,606	14,273	14,273	14,261	14,261		
Accumulated other comprehensive income (loss)	(1,168)	(1,168)	(1,332)	(1,332)	(954)	(954)	(1,112)	(1,112)		
Treasury stock, at cost	(8,969)	(8,969)	(8,715)	(8,715)	—	—	—	—		
Total	21,360	21,360	21,124	21,124	26,213	26,213	26,043	26,043		
Regulatory capital adjustments:										
Goodwill and other intangible assets, net of associated deferred tax liabilities	(9,294)	(9,294)	(9,350)	(9,350)	(9,016)	(9,016)	(9,073)	(9,073)		
Other adjustments(2)	(167)	(167)	(194)	(194)	(1)	(1)	(29)	(29)		
Common equity tier 1 capital	11,899	11,899	11,580	11,580	17,196	17,196	16,941	16,941		
Preferred stock	3,690	3,690	3,690	3,690	—	—	—	—		
Tier 1 capital	15,589	15,589	15,270	15,270	17,196	17,196	16,941	16,941		
Qualifying subordinated long-term debt	787	787	778	778	785	785	776	776		
Allowance for loan and lease losses	10	84	14	83	6	83	11	83		
Total capital	\$ 16,386	\$ 16,460	\$ 16,062	\$ 16,131	\$ 17,987	\$ 18,064	\$ 17,728	\$ 17,800		
Risk-weighted assets:										
Credit risk(3)	\$ 49,451	\$ 102,284	\$ 47,738	\$ 97,303	\$ 47,106	\$ 99,673	\$ 45,565	\$ 94,776		
Operational risk(4)	47,213	NA	46,060	NA	44,416	NA	44,494	NA		
Market risk	1,359	1,359	1,517	1,517	1,359	1,359	1,517	1,517		
Total risk-weighted assets	\$ 98,023	\$ 103,643	\$ 95,315	\$ 98,820	\$ 92,881	\$ 101,032	\$ 91,576	\$ 96,293		
Adjusted quarterly average assets	\$ 210,099	\$ 210,099	\$ 211,924	\$ 211,924	\$ 207,417	\$ 207,417	\$ 209,413	\$ 209,413		
Capital Ratios:										
	2019 Minimum Requirements Including Capital Conservation Buffer and G-SIB Surcharge(5)	2018 Minimum Requirements Including Capital Conservation Buffer and G-SIB Surcharge(6)								
Common equity tier 1 capital	8.5 %	7.5 %	12.1 %	11.5 %	12.1 %	11.7 %	18.5 %	17.0 %	18.5 %	17.6 %
Tier 1 capital	10.0	9.0	15.9	15.0	16.0	15.5	18.5	17.0	18.5	17.6
Total capital	12.0	11.0	16.7	15.9	16.9	16.3	19.4	17.9	19.4	18.5

(1) Under the applicable bank regulatory rules, we are not required to and, accordingly, did not revise previously-filed reported capital metrics and ratios following the change in accounting for LIHTC.

(2) Other adjustments within CET1 capital primarily include the overfunded portion of our defined benefit pension plan obligation net of associated deferred tax liabilities, disallowed deferred tax assets, and other required credit risk based deductions.

(3) Includes a CVA which reflects the risk of potential fair value adjustments for credit risk reflected in our valuation of over-the-counter (OTC) derivative contracts. We used a simple CVA approach in conformity with the Basel III advanced approaches.

(4) Under the current advanced approaches rules and regulatory guidance concerning operational risk models, RWA attributable to operational risk can vary substantially from period-to-period, without direct correlation to the effects of a particular loss event on our results of operations and financial condition and impacting dates and periods that may differ from the dates and periods as of and during which the loss event is reflected in our financial statements, with the timing and categorization dependent on the processes for model updates and, if applicable, model revalidation and regulatory review and related supervisory processes. An individual loss event can have a significant effect on the output of our operational RWA under the advanced approaches depending on the severity of the loss event and its categorization among the seven Basel-defined UOMs.

(5) Minimum requirements were phased in with full implementation beginning on January 1, 2019; minimum requirements listed are as of March 31, 2019.

(6) Minimum requirements were phased in with full implementation beginning on January 1, 2019; minimum requirements listed are as of December 31, 2018.

NA Not applicable

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Our CET1 capital increased \$0.32 billion as of March 31, 2019 compared to December 31, 2018, primarily driven by net income of \$0.51 billion and accumulated other comprehensive income of \$0.16 billion in the first quarter of 2019, partially offset by common stock repurchases of \$0.30 billion and capital distributions of \$0.23 billion from common and preferred stock dividends.

Our tier 1 capital increased \$0.32 billion as of March 31, 2019 compared to December 31, 2018 under both the advanced approaches and standardized approach due to the changes in our CET1 capital. Total capital increased under the advanced approaches and standardized approach by \$0.32 billion and \$0.33 billion, respectively, due to the changes in our CET1 and tier 2 capital.

The table below presents a roll-forward of CET1 capital, tier 1 capital and total capital for the first quarter of 2019 and for the year ended December 31, 2018.

TABLE 34: CAPITAL ROLL-FORWARD

(In millions)	Basel III Advanced Approaches March 31, 2019	Basel III Standardized Approach March 31, 2019	Basel III Advanced Approaches December 31, 2018 ⁽¹⁾	Basel III Standardized Approach December 31, 2018 ⁽¹⁾
Common equity tier 1 capital:				
Common equity tier 1 capital balance, beginning of period	\$ 11,580	\$ 11,580	\$ 12,204	\$ 12,204
Net income	508	508	2,599	2,599
Changes in treasury stock, at cost	(253)	(253)	314	314
Dividends declared	(233)	(233)	(853)	(853)
Goodwill and other intangible assets, net of associated deferred tax liabilities	56	56	(2,473)	(2,473)
Effect of certain items in accumulated other comprehensive income (loss)	163	163	(360)	(360)
Other adjustments	78	78	149	149
Changes in common equity tier 1 capital	319	319	(624)	(624)
Common equity tier 1 capital balance, end of period	11,899	11,899	11,580	11,580
Additional tier 1 capital:				
Tier 1 capital balance, beginning of period	15,270	15,270	15,382	15,382
Change in common equity tier 1 capital	319	319	(624)	(624)
Net issuance of preferred stock	—	—	494	494
Other adjustments	—	—	18	18
Changes in tier 1 capital	319	319	(112)	(112)
Tier 1 capital balance, end of period	15,589	15,589	15,270	15,270
Tier 2 capital:				
Tier 2 capital balance, beginning of period	792	861	985	1,053
Net issuance and changes in long-term debt qualifying as tier 2	9	9	(202)	(202)
Changes in Allowance for loan and lease losses and other	(4)	1	10	11
Change in other adjustments	—	—	(1)	(1)
Changes in tier 2 capital	5	10	(193)	(192)
Tier 2 capital balance, end of period	797	871	792	861
Total capital:				
Total capital balance, beginning of period	16,062	16,131	16,367	16,435
Changes in tier 1 capital	319	319	(112)	(112)
Changes in tier 2 capital	5	10	(193)	(192)
Total capital balance, end of period	\$ 16,386	\$ 16,460	\$ 16,062	\$ 16,131

⁽¹⁾ Under the applicable bank regulatory rules, we are not required to and, accordingly, did not revise previously-filed reported capital metrics and ratios following the change in accounting for LIHTC.

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The following table presents a roll-forward of the Basel III advanced approaches RWA for the first quarter of 2019 and for the year ended December 31, 2018.

TABLE 35: ADVANCED APPROACHES RISK-WEIGHTED ASSETS ROLL-FORWARD

(In millions)	March 31, 2019	December 31, 2018
Total risk-weighted assets, beginning of period	\$95,315	\$ 99,156
Changes in credit risk-weighted assets:		
Net increase (decrease) in investment securities-wholesale	1,430	(940)
Net increase (decrease) in loans and leases	240	(12)
Net increase (decrease) in securitization exposures	(156)	(3,666)
Net increase (decrease) in repo-style transaction exposures	118	(19)
Net increase (decrease) in Over-the-counter derivatives exposures	(405)	(1,170)
Net increase (decrease) in all other ⁽¹⁾	486	1,545
Net increase (decrease) in credit risk-weighted assets	1,713	(4,262)
Net increase (decrease) in market risk-weighted assets	(158)) 183
Net increase (decrease) in operational risk-weighted assets	1,153	238
Total risk-weighted assets, end of period	\$98,023	\$ 95,315

⁽¹⁾ Includes assets not in a definable category, cleared transactions, non-material portfolio, other wholesale, cash and due from, and interest-bearing deposits with banks, equity exposures and 6% credit risk supervisory charge.

As of March 31, 2019, total advanced approaches RWA increased \$2.71 billion compared to December 31, 2018, primarily due to increases in both credit RWA of \$1.71 billion and operational risk RWA of \$1.15 billion. The increase in credit RWA was primarily driven by an increase in investment securities RWA of \$1.36 billion primarily due to purchases of HQLA securities.

The following table presents a roll-forward of the Basel III standardized approach RWA for the first quarter of 2019 and for the year ended December 31, 2018.

TABLE 36: STANDARDIZED APPROACH RISK-WEIGHTED ASSETS ROLL-FORWARD

(In millions)	March 31, 2019	December 31, 2018
Total risk-weighted assets, beginning of period ⁽¹⁾	\$98,820	\$102,683
Changes in credit risk-weighted assets:		
Net increase (decrease) in investment securities-wholesale	1,483	(2,887)
Net increase (decrease) in loans and leases	(1,879)) 3,104
Net increase (decrease) in securitization exposures	(156)	(3,666)
Net increase (decrease) in repo-style transaction exposures	5,158	(3,156)
Net increase (decrease) in Over-the-counter derivatives exposures	(303)) (46)
Net increase (decrease) in all other ⁽²⁾	678	2,605
Net increase (decrease) in credit risk-weighted assets	4,981	(4,046)
Net increase (decrease) in market risk-weighted assets	(158)) 183
Total risk-weighted assets, end of period	\$103,643	\$98,820

⁽¹⁾ Standardized approach RWA as of the periods noted above were calculated using our estimates, based on our then current interpretation of the Basel III final rule.

⁽²⁾ Includes assets not in a definable category, cleared transactions, other wholesale, cash and due from, and interest-bearing deposits with banks and equity exposures.

As of March 31, 2019, total standardized approach RWA increased \$4.82 billion compared to December 31, 2018, primarily due to higher credit RWA. The main drivers of the credit RWA change were an increase in securities finance RWA of \$5.03 billion driven by new exposures and market appreciation, higher

investment securities RWA of \$1.43 billion from the purchase of HQLA securities, and an increase in other exposures. These increases were partially offset by a reduction in domestic overdrafts RWA of \$1.86 billion in the first quarter of 2019.

The regulatory capital ratios as of March 31, 2019, presented in Table 33: Regulatory Capital Structure and Related Regulatory Capital Ratios, are calculated under the standardized approach and advanced approaches in conformity with the Basel III final rule. The advanced approaches-based ratios reflect calculations and determinations with respect to our capital and related matters as of March 31, 2019, based on our and external data, quantitative formulae, statistical models, historical correlations and assumptions, collectively referred to as “advanced systems,” in effect and used by us for those purposes as of the time we first reported such ratios in a quarterly report on Form 10-Q or an annual report on Form 10-K. Significant components of these advanced systems involve the exercise of judgment by us and our regulators, and our advanced systems may not, individually or collectively, precisely represent or

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calculate the scenarios, circumstances, outputs or other results for which they are designed or intended. Our advanced systems are subject to update and periodic revalidation in response to changes in our business activities and our historical experiences, forces and events experienced by the market broadly or by individual financial institutions, changes in regulations and regulatory interpretations and other factors, and are also subject to continuing regulatory review and approval. For example, a significant operational loss experienced by another financial institution, even if we do not experience a related loss, could result in a material change in the output of our advanced systems and a corresponding material change in our risk exposures, our total RWA and our capital ratios compared to prior periods. An operational loss that we experience could also result in a material change in our capital requirements for operational risk under the advanced approaches, depending on the severity of the loss event, its characterization among the seven Basel-defined UOM, and the stability of the distributional approach for a particular UOM, and without direct correlation to the effects of the loss event, or the timing of such effects, on our results of operations. Due to the influence of changes in these advanced systems, whether resulting from changes in data inputs, regulation or regulatory supervision or interpretation, specific to us or market activities or experiences or other updates or factors, we expect that our advanced systems and our capital ratios calculated in conformity with the Basel III final rule will change and may be volatile over time, and that those latter changes or volatility could be material as calculated and measured from period to period. The full effects of the Basel III final rule on us and State Street Bank are therefore subject to further evaluation and also to further regulatory guidance, action or rule-making.

Total Loss-Absorbing Capacity (TLAC)

In 2016, the Federal Reserve released its final rule on TLAC, long-term debt (LTD) and clean holding company requirements for U.S. domiciled G-SIBs, such as us, that is intended to improve the resiliency and resolvability of certain U.S. banking organizations through enhanced prudential standards. The TLAC final rule imposes: (1) external TLAC requirements (i.e., combined eligible tier 1 regulatory capital and LTD); (2) separate external LTD requirements; and (3) clean holding company requirements that impose restrictions on certain types of liabilities and limit non-TLAC related third party liabilities to 5.0% of external TLAC. Among other things, the TLAC final rule requires us to comply with minimum requirements for external TLAC and external LTD effective January 1, 2019. Specifically, we must hold (1) combined eligible tier 1 regulatory capital and LTD in the amount equal to the greater of 21.5% of total RWA (18.0% minimum plus a 2.5% capital

conservation buffer plus a G-SIB surcharge calculated for these purposes under Method 1 of 1.0%) and 9.5% of total leverage exposure (7.5% minimum plus the SLR buffer of 2.0%), as defined by the SLR final rule; and (2) qualifying external LTD equal to the greater of 7.5% of RWA (6.0% minimum plus a G-SIB surcharge calculated for these purposes under method 2 of 1.5%) and 4.5% of total leverage exposure, as defined by the SLR final rule.

The following table presents external LTD and external TLAC as of March 31, 2019:

**TABLE 37: TOTAL
LOSS-ABSORBING CAPACITY
As of March 31, 2019**

(Dollars Actual Requirement⁽¹⁾ millions)	
Total	
loss-absorbing	
capacity	
(eligible	
Tier	
1	

regulatory capacity and long term debt):			
Risk-weighted assets	\$26,610	25.7%	\$22,283 21.5%
Supplemental leverage	11.3		22,419 9.5
ratio			
Long term debt:			
Risk-weighted assets	9,813	9.5	7,773 7.5
Supplemental leverage	4.2		10,619 4.5
ratio			

(1) We have received a one year extension for compliance with LTD SLR to January 1, 2020; all other requirements of the TLAC final rule are effective January 1, 2019.

We requested and received from the Federal Reserve, a one year extension from January 1, 2019 to January 1, 2020, for compliance with the LTD SLR requirements of the TLAC final rule. In granting the extension request, the Federal Reserve noted the Economic Growth, Regulatory Relief, and Consumer Protection Act (EGRRCPA), under which the Federal Reserve and the other U.S. federal banking agencies must promulgate rules to exclude certain central bank placements from the calculation of SLR for custodial banks, such as us. This regulatory change is expected to reduce the LTD we are required to hold as calculated under the current requirements. The extension will allow us to determine the appropriate amount of LTD needed to comply with the LTD SLR requirements of the TLAC rule after the Federal Reserve and the other U.S. federal banking agencies have adopted this regulatory change.

Regulatory Developments

In April 2018, the Federal Reserve Board (FRB) issued a proposed rule which would replace the current 2.0% supplementary leverage ratio buffer for G-SIBs, with a buffer equal to 50% of their G-SIB surcharge. This proposal would also make conforming modifications to our TLAC and eligible LTD requirements applicable to G-SIBs.

In addition, the FRB has issued a separate proposed rule replacing the current 2.5% capital conservation buffer with a firm specific buffer (referred to as the Stress Capital Buffer (SCB), updated annually and tailored to reflect the results of the most recent Federal Reserve’s CCAR supervisory severely adverse

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scenario stress test. The proposal also introduces a Stress Leverage Buffer (SLB) applicable to the tier 1 leverage ratio. Under the proposal, both the SCB and SLB would become effective October 1, 2019. Changes to the final rules, if and when proposed, may be material and the application of the proposed rule involves estimates which cannot reasonably be made at present. Consequently, we have not estimated the impact of the proposed rule.

In April 2019, the FRB issued a proposed rule on the promulgation of regulation for section 402 of the EGRRCPA that was signed into law in May 2018. Under the legislation, specific modifications would allow certain central bank deposits to be excluded from the SLR denominator, or total leverage exposure for custody banks. In the first quarter of 2019, we estimated \$46.10 billion of average balances held on deposit at central banks would be excluded from the SLR denominator under our interpretation of the proposed regulation. The EGRRCPA may also impact our TLAC and LTD requirements calibrated to SLR.

Tier 1 Capital and Supplementary Leverage Ratio

In 2014, U.S. banking regulators issued final rules implementing an SLR, for certain bank holding companies, like us, and their insured depository institution subsidiaries, like State Street Bank, which we refer to as the SLR final rule. The SLR final rule requires that, as of January 1, 2018, (i) State Street Bank maintains an SLR of at least 6.0% to be well capitalized under the U.S. banking regulators' Prompt Corrective Action Framework and (ii) we maintain an SLR of at least 5.0% to avoid limitations on capital distributions and discretionary bonus payments. In addition to the SLR, we are subject to a well capitalized tier 1 leverage ratio requirement of 5.0%, which differs from the SLR primarily in that the denominator of the tier 1 leverage ratio is only a quarterly average of on-balance sheet assets and does not include any off-balance sheet exposures.

TABLE 38: TIER 1 AND SUPPLEMENTARY LEVERAGE RATIOS

(Dollars in millions)	March 31, 2019	December 31, 2018	
State Street:			
Tier 1 capital	\$ 15,589	\$ 15,270	
Average assets	219,560	221,350	
Less: adjustments for deductions from tier 1 capital	(9,461)	(9,426)	
Adjusted average assets	210,099	211,924	
Off-balance sheet exposures	25,889	29,279	
Total assets for SLR	\$ 235,988	\$ 241,203	
Tier 1 leverage ratio ⁽¹⁾	7.4	% 7.2	%
Supplementary leverage ratio	6.6	6.3	
State Street Bank:			
Tier 1 capital	\$ 17,196	\$ 16,941	
Average assets	216,434	218,402	
Less: adjustments for deductions from tier 1 capital	(9,017)	(8,989)	
Adjusted average assets	207,417	209,413	
Off-balance sheet exposures	26,072	29,368	
Total assets for SLR	\$ 233,489	\$ 238,781	
Tier 1 leverage ratio ⁽¹⁾	8.3	% 8.1	%
Supplementary leverage ratio	7.4	7.1	

⁽¹⁾ Tier 1 leverage ratios were calculated in conformity with the Basel III final rule.

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The following table summarizes selected terms of each of the series of the preferred stock issued and outstanding as of March 31, 2019:

TABLE 39: PREFERRED STOCK ISSUED AND OUTSTANDING

Issuance Date	Depository Shares Issued	Ownership Interest Per Depository Share	Liquidation Preference Per Share	Liquidation Preference Per Depository Share	Net Proceeds of Offering (In millions)	Redemption Date ⁽¹⁾
Preferred Stock⁽²⁾:						
Series C August 2012	20,000,000	1/4,000th	\$ 100,000	\$ 25	\$ 488	September 15, 2017
Series D February 2014	30,000,000	1/4,000th	100,000	25	742	March 15, 2024
Series E November 2014	30,000,000	1/4,000th	100,000	25	728	December 15, 2019
Series F May 2015	750,000	1/100th	100,000	1,000	742	September 15, 2020
Series G April 2016	20,000,000	1/4,000th	100,000	25	493	March 15, 2026
Series H September 2018	500,000	1/100th	100,000	1,000	494	December 15, 2023

(1) On the redemption date, or any dividend declaration date thereafter, the preferred stock and corresponding depository shares may be redeemed by us, in whole or in part, at the liquidation price per share and liquidation price per depository share plus any declared and unpaid dividends, without accumulation of any undeclared dividends.

(2) The preferred stock and corresponding depository shares may be redeemed at our option in whole, but not in part, prior to the redemption date upon the occurrence of a regulatory capital treatment event, as defined in the certificate of designation, at a redemption price equal to the liquidation price per share and liquidation price per depository share plus any declared and unpaid dividends, without accumulation of any undeclared dividends.

The following table presents the dividends declared for each of the series of preferred stock issued and outstanding for the periods indicated:

TABLE 40: PREFERRED STOCK DIVIDENDS

(Dollars in millions, except per share amounts)	Three Months Ended March 31,					
	2019			2018		
	Dividends Declared per Share	Dividends Declared per Depository Share	Total	Dividends Declared per Share	Dividends Declared per Depository Share	Total
Preferred Stock:						
Series C	\$ 1,313	\$ 0.33	\$ 6	\$ 1,313	\$ 0.33	\$ 6
Series D	1,475	0.37	11	1,475	0.37	11
Series E	1,500	0.38	11	1,500	0.38	11
Series F	2,625	26.25	20	2,625	26.25	20
Series G	1,338	0.33	7	1,338	0.33	7
Series H	—	—	—	—	—	—
Total			\$ 55			\$ 55

Common Stock

In June 2018, the Federal Reserve issued a conditional non-objection to our 2018 capital plan, requiring State Street to enhance the management and analysis of counterparty exposures under stress, which was subsequently satisfied. In connection with our capital plan, we repurchased \$300 million of our common stock under the 2018 Program in the first quarter of 2019 and may repurchase up to \$300 million of our common stock under the 2018 Program in the second quarter of 2019.

The table below presents the activity under our common stock purchase program during the period indicated:

TABLE 41: SHARES REPURCHASED

	Three Months Ended March 31, 2019	
	Average	Total
	Share	Acquired
	Cost	(In
	(In per	Share
	Share)	(In
	millions)	millions)
2018 Program	4.2 \$ 70.93	\$ 300

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The table below presents the dividends declared on common stock for the periods indicated:

TABLE 42: COMMON STOCK DIVIDENDS

Three Months Ended March 31,			
2019		2018	
Dividends Declared per Share	Total (in millions)	Dividends Declared per Share	Total (in millions)
Common Stock	\$0.47 \$ 177	\$0.42 \$ 154	

Federal and state banking regulations place certain restrictions on dividends paid by subsidiary banks to the parent holding company. In addition, banking regulators have the authority to prohibit bank holding companies from paying dividends. For information concerning limitations on dividends from our subsidiary banks, refer to pages 50 and 51 included under Item 5, Market for Registrant's Common Equity, Related Stockholder Matters and Issuer Purchases of Equity Securities, and to Note 15 on pages 165 to 167 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K. Our common stock and preferred stock dividends, including the declaration, timing and amount thereof, are subject to consideration and approval by the Board at the relevant times.

Stock purchases may be made using various types of mechanisms, including open market purchases, accelerated share repurchases or transactions off market and may be made under Rule 10b5-1 trading programs. The timing of stock purchases, types of transactions and number of shares purchased will depend on several factors, including, market conditions and our capital positions, financial performance and investment opportunities. The common stock purchase program does not have specific price targets and may be suspended at any time.

OFF-BALANCE SHEET ARRANGEMENTS

On behalf of clients enrolled in our securities lending program, we lend securities to banks, broker/dealers and other institutions. In most circumstances, we indemnify our clients for the fair market value of those securities against a failure of the borrower to return such securities. Though these transactions are collateralized, the substantial volume of these activities necessitates detailed credit-based underwriting and monitoring processes. The aggregate amount of indemnified securities on loan totaled \$387.31 billion and \$342.34 billion as of March 31, 2019 and December 31, 2018, respectively. We require the borrower to provide collateral in an amount in excess of 100% of the fair market value of the securities borrowed. We hold the collateral received in connection with these securities lending services as agent, and the collateral is not recorded in our consolidated statement of condition. We revalue the securities on loan and the collateral daily to determine if additional collateral is

necessary or if excess collateral is required to be returned to the borrower. We held, as agent, cash and securities totaling \$405.30 billion and \$357.89 billion as collateral for indemnified securities on loan as of March 31, 2019 and December 31, 2018, respectively.

The cash collateral held by us as agent is invested on behalf of our clients. In certain cases, the cash collateral is invested in third-party repurchase agreements, for which we indemnify the client against loss of the principal invested. We require the counterparty to the indemnified repurchase agreement to provide collateral in an amount in excess of 100% of the amount of the repurchase agreement. In our role as agent, the indemnified repurchase agreements and the related collateral held by us are not recorded in our consolidated statement of condition. Of the collateral of \$405.30 billion and \$357.89 billion, referenced above, \$47.56 billion and \$42.61 billion was invested in indemnified repurchase agreements as of March 31, 2019 and December 31, 2018, respectively. We or our agents held \$50.35 billion and \$45.06 billion as collateral for indemnified investments in repurchase agreements as of March 31, 2019 and December 31,

2018, respectively.

Additional information about our securities finance activities and other off-balance sheet arrangements is provided in Notes 7, 9 and 11 to the consolidated financial statements in this Form 10-Q.

RECENT ACCOUNTING DEVELOPMENTS

Information with respect to recent accounting developments is provided in Note 1 to the consolidated financial statements in this Form 10-Q.

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QUANTITATIVE AND QUALITATIVE DISCLOSURES ABOUT MARKET RISK

The information provided under "Market Risk Management" in "Financial Condition" in our Management's Discussion and Analysis in this Form 10-Q, is incorporated by reference herein. For additional information about our market risk framework, refer to pages 97 to 104 included under Item 7, Management's Discussion and Analysis of Financial Condition and Results of Operations, "Risk Management Framework" in our 2018 Form 10-K.

CONTROLS AND PROCEDURES

We have established and maintained disclosure controls and procedures that are designed to ensure that information related to us and our subsidiaries on a consolidated basis required to be disclosed in our reports filed or submitted under the Securities Exchange Act of 1934 is recorded, processed, summarized, and reported within the time periods specified in the SEC's rules and forms, and that such information is accumulated and communicated to our management, including our Chief Executive Officer and Chief Financial Officer, as appropriate, to allow timely decisions regarding required disclosure. For the quarter ended March 31, 2019, our management carried out an evaluation, with the participation of the Chief Executive Officer and Chief Financial Officer, of the effectiveness of the design and operation of our disclosure controls and procedures. Based on the evaluation of these disclosure controls and procedures, the Chief Executive Officer and Chief Financial Officer concluded that our disclosure controls and procedures were effective as of March 31, 2019.

We have established and maintained internal control over financial reporting as a process designed to provide reasonable assurance regarding the reliability of financial reporting and the preparation of consolidated financial statements for external purposes in conformity with U.S. GAAP. In the ordinary course of business, we routinely enhance our internal controls and procedures for financial reporting by either upgrading our current systems or implementing new systems. Changes have been made and may be made to our internal controls and procedures for financial reporting as a result of these efforts. During the quarter ended March 31, 2019, no change occurred in our internal control over financial reporting that has materially affected, or is reasonably likely to materially affect, our internal control over financial reporting.

STATE STREET CORPORATION
CONSOLIDATED STATEMENT OF INCOME
(UNAUDITED)

(Dollars in millions, except per share amounts)	Three Months	
	Ended March	
	31,	
	2019	2018
Fee revenue:		
Servicing fees	\$1,251	\$1,421
Management fees	420	472
Foreign exchange trading services	280	304
Securities finance	118	141
Processing fees and other	191	77
Total fee revenue	2,260	2,415
Net interest income:		
Interest income	1,027	857
Interest expense	354	214
Net interest income	673	643
Gains (losses) related to investment securities, net:		
Gains (losses) from sales of available-for-sale securities, net	—	(1)
Losses from other-than-temporary impairment	(1)	(1)
Gains (losses) related to investment securities, net	(1)	(2)
Total revenue	2,932	3,056
Provision for loan losses	4	—
Expenses:		
Compensation and employee benefits	1,229	1,249
Information systems and communications	362	315
Transaction processing services	242	254
Occupancy	116	120
Acquisition and restructuring costs	9	—
Amortization of other intangible assets	60	50
Other	275	280
Total expenses	2,293	2,268
Income before income tax expense	635	788
Income tax expense	127	129
Net income	\$508	\$659
Net income available to common shareholders	\$452	\$603
Earnings per common share:		
Basic	\$1.20	\$1.64
Diluted	1.18	1.62
Average common shares outstanding (in thousands):		
Basic	377,915	367,439
Diluted	381,703	372,619
Cash dividends declared per common share	\$.47	\$.42

The accompanying condensed notes are an integral part of these consolidated financial statements.

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STATE STREET CORPORATION
CONSOLIDATED STATEMENT OF COMPREHENSIVE INCOME
(UNAUDITED)

(In millions)	Three Months Ended March 31,	
	2019	2018
Net income	\$508	\$659
Other comprehensive income (loss), net of related taxes:		
Foreign currency translation, net of related taxes of (\$3) and \$52, respectively	(26)	151
Net unrealized gains (losses) on available-for-sale securities, net of reclassification adjustment and net of related taxes of \$108 and (\$102), respectively	272	(149)
Net unrealized gains (losses) on available-for-sale securities designated in fair value hedges, net of related taxes of (\$1) and \$7, respectively	(2)	18
Other-than-temporary impairment on held-to-maturity securities related to factors other than credit, net of related taxes of (\$1) and \$2, respectively	—	—
Net unrealized gains (losses) on cash flow hedges, net of related taxes of \$9 and (\$19), respectively	24	(97)
Net unrealized gains (losses) on retirement plans, net of related taxes of (\$4) and \$3, respectively	(8)	12
Other comprehensive income (loss)	260	(65)
Total comprehensive income	\$768	\$594

The accompanying condensed notes are an integral part of these consolidated financial statements.

STATE STREET CORPORATION
CONSOLIDATED STATEMENT OF CONDITION

	March 31, 2019	December 31, 2018
	(Unaudited)	
(Dollars in millions, except per share amounts)		
Assets:		
Cash and due from banks	\$ 4,469	\$3,597
Interest-bearing deposits with banks	53,864	73,040
Securities purchased under resale agreements	1,522	4,679
Trading account assets	856	860
Investment securities available-for-sale	49,002	45,148
Investment securities held-to-maturity (fair value of \$40,971 and \$41,351)	41,145	41,914
Loans and leases (less allowance for losses of \$70 and \$67)	23,311	25,722
Premises and equipment (net of accumulated depreciation of \$3,937 and \$4,152)	2,230	2,214
Accrued interest and fees receivable	3,277	3,203
Goodwill	7,549	7,446
Other intangible assets	2,208	2,369
Other assets	38,899	34,404
Total assets	\$ 228,332	\$ 244,596
Liabilities:		
Deposits:		
Non-interest-bearing	\$ 35,295	\$44,804
Interest-bearing - U.S.	62,988	66,235
Interest-bearing - non-U.S.	64,188	69,321
Total deposits	162,471	180,360
Securities sold under repurchase agreements	1,420	1,082
Other short-term borrowings	947	3,092
Accrued expenses and other liabilities	27,274	24,232
Long-term debt	11,182	11,093
Total liabilities	203,294	219,859
Commitments, guarantees and contingencies (Notes 9 and 10)		
Shareholders' equity:		
Preferred stock, no par, 3,500,000 shares authorized:		
Series C, 5,000 shares issued and outstanding	491	491
Series D, 7,500 shares issued and outstanding	742	742
Series E, 7,500 shares issued and outstanding	728	728
Series F, 7,500 shares issued and outstanding	742	742
Series G, 5,000 shares issued and outstanding	493	493
Series H, 5,000 shares issued and outstanding	494	494
Common stock, \$1 par, 750,000,000 shares authorized:		
503,879,642 and 503,879,642 shares issued, and 376,720,715 and 379,946,724 shares outstanding	504	504
Surplus	10,082	10,061
Retained earnings	20,911	20,553
Accumulated other comprehensive income (loss)	(1,180)	(1,356)
Treasury stock, at cost (127,158,927 and 123,932,918 shares)	(8,969)	(8,715)
Total shareholders' equity	25,038	24,737
Total liabilities and shareholders' equity	\$ 228,332	\$ 244,596

The accompanying condensed notes are an integral part of these consolidated financial statements.

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STATE STREET CORPORATION
CONSOLIDATED STATEMENT OF CHANGES IN SHAREHOLDERS' EQUITY
(UNAUDITED)

(Dollars in millions, except per share amounts, shares in thousands)	Common Stock			Surplus	Retained Earnings	Accumulated Other Comprehensive Income (Loss)	Treasury Stock		Total
	Preferred Stock	Shares (In thousands)	Amount				Shares (In thousands)	Amount	
Balance at December 31, 2017	\$ 3,196	503,880	\$ 504	\$ 9,799	\$ 18,809	\$ (1,009)	136,230	\$(9,029)	\$ 22,270
Net income					659				659
Other comprehensive income						(65)			(65)
Cash dividends declared:									
Common stock - \$0.42 per share					(154)				(154)
Preferred stock					(55)				(55)
Common stock acquired							3,324	(350)	(350)
Common stock awards exercised				(3)			(1,075)	45	42
Other					3		(7)		3
Balance at March 31, 2018	\$ 3,196	\$ 503,880	\$ 504	\$ 9,796	\$ 19,262	\$ (1,074)	\$ 138,472	\$(9,334)	\$ 22,350
Balance at December 31, 2018	\$ 3,690	\$ 503,880	\$ 504	\$ 10,061	\$ 20,553	\$ (1,356)	\$ 123,933	\$(8,715)	\$ 24,737
Reclassification of certain tax effects ⁽¹⁾					84	(84)			—
Net income					508				508
Other comprehensive income						260			260
Cash dividends declared:									
Common stock - \$0.47 per share					(177)				(177)
Preferred stock					(55)				(55)
Common stock acquired							4,230	(300)	(300)
Common stock awards exercised				26			(1,002)	45	71
Other				(5)	(2)		(2)	1	(6)
Balance at March 31, 2019	\$ 3,690	\$ 503,880	\$ 504	\$ 10,082	\$ 20,911	\$ (1,180)	\$ 127,159	\$(8,969)	\$ 25,038

The accompanying condensed notes are an integral part of these consolidated financial statements.

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STATE STREET CORPORATION
CONSOLIDATED STATEMENT OF CASH FLOWS
(UNAUDITED)

(In millions)	Three Months Ended March 31,	
	2019	2018
Operating Activities:		
Net income	\$508	\$659
Adjustments to reconcile net income to net cash provided by (used in) operating activities:		
Deferred income tax (benefit)	(35)	(33)
Amortization of other intangible assets	60	50
Other non-cash adjustments for depreciation, amortization and accretion, net	244	248
(Gains) losses related to investment securities, net	1	2
Change in trading account assets, net	4	(85)
Change in accrued interest and fees receivable, net	(74)	(84)
Change in collateral deposits, net	(1,527)	6,011
Change in unrealized (gains) losses on foreign exchange derivatives, net	(63)	(2,205)
Change in other assets, net	(732)	(993)
Change in accrued expenses and other liabilities, net	976	1,091
Other, net	143	175
Net cash (used in) provided by operating activities	(495)	4,836
Investing Activities:		
Net (increase) decrease in interest-bearing deposits with banks	19,176	(12,191)
Net (increase) decrease in securities purchased under resale agreements	3,157	(1,895)
Proceeds from sales of available-for-sale securities	152	11,720
Proceeds from maturities of available-for-sale securities	3,959	4,438
Purchases of available-for-sale securities	(7,408)	(3,922)
Proceeds from maturities of held-to-maturity securities	2,606	1,155
Purchases of held-to-maturity securities	(2,348)	(1,860)
Net decrease (increase) in loans and leases	2,409	(6,280)
Business acquisitions, net of cash acquired	(54)	—
Purchases of equity investments and other long-term assets	(71)	(8)
Purchases of premises and equipment, net	(171)	(147)
Other, net	264	17
Net cash provided by (used in) investing activities	21,671	(8,973)
Financing Activities:		
Net (decrease) in time deposits	(5,876)	(1,789)
Net (decrease) increase in all other deposits	(12,013)	8,410
Net increase (decrease) in other short-term borrowings	(1,807)	(900)
Payments for long-term debt and obligations under capital leases	(31)	(515)
Repurchases of common stock	(300)	(350)
Repurchases of common stock for employee tax withholding	(43)	(70)
Payments for cash dividends	(234)	(210)
Net cash (used in) provided by financing activities	(20,304)	4,576
Net increase	872	439
Cash and due from banks at beginning of period	3,597	2,107
Cash and due from banks at end of period	\$4,469	\$2,546

The accompanying condensed notes are an integral part of these consolidated financial statements.

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We use acronyms and other defined terms for certain business terms and abbreviations, as defined in the acronyms list and glossary accompanying these consolidated financial statements.

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Note 1. Summary of Significant Accounting Policies

Basis of Presentation

The accounting and financial reporting policies of State Street Corporation conform to U.S. GAAP. State Street Corporation, the Parent Company, is a financial holding company headquartered in Boston, Massachusetts. Unless otherwise indicated or unless the context requires otherwise, all references in these notes to consolidated financial statements to "State Street," "we," "us," "our" or similar references mean State Street Corporation and its subsidiaries on a consolidated basis, including our principal banking subsidiary, State Street Bank.

The accompanying consolidated financial statements should be read in conjunction with the financial and risk factor information included in our 2018 Form 10-K, which we previously filed with the SEC.

The consolidated financial statements accompanying these condensed notes are unaudited. In the opinion of management, all adjustments, consisting only of normal recurring adjustments, which are necessary for a fair statement of the consolidated results of operations in these financial statements, have been made. Certain previously reported amounts presented in this Form 10-Q have been reclassified to conform to current-period presentation. Events occurring subsequent to the date of our consolidated statement of condition were evaluated for potential recognition or disclosure in our consolidated financial statements through the date we filed this Form 10-Q with the SEC.

The preparation of consolidated financial statements in conformity with U.S. GAAP requires management to make estimates and assumptions in the application of certain of our significant accounting policies that may materially affect the reported amounts of assets, liabilities, equity, revenue and expenses. As a result of unanticipated events or circumstances, actual results could differ from those estimates. These accounting estimates reflect the best judgment of management, but actual results could differ. Our consolidated statement of condition as of December 31, 2018 included in the accompanying consolidated financial statements was derived from the audited financial statements as of that date, but does not include all notes required by U.S. GAAP for a complete set of consolidated financial statements.

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Recent Accounting Developments

Relevant standards that were recently issued but not yet adopted as of March 31, 2019:

Standard	Description	Date of Adoption	Effects on the financial statements or other significant matters
ASU 2016-13, Financial Instruments-Credit Losses (Topic 326): Measurement of Credit Losses on Financial Instruments	The standard replaces the existing incurred loss impairment guidance and requires immediate recognition of expected credit losses for financial assets carried at amortized cost, including trade and other receivables, loans and commitments, held-to-maturity debt securities and other financial assets, held at the reporting date to be measured based on historical experience, current conditions and reasonable supportable forecasts. The standard also amends existing impairment guidance for available-for-sale securities, and credit losses will be recorded as an allowance versus a write-down of the amortized cost basis of the security and will allow for a reversal of impairment loss when the credit of the issuer improves. The guidance requires a cumulative effect of initial application to be recognized in retained earnings at the date of initial application.	January 1, 2020, early adoption permitted	We are continuing to assess the impact of the standard on our consolidated financial statements. We have established a steering committee to provide cross-functional governance over the project plan and key decisions, and continue to develop key accounting policies, assess new and existing credit loss models and processes and address data requirements and sources to ensure that the expected credit losses are calculated in accordance with the standard. We have developed credit loss models that are currently under review by our Model Validation Group. Based on our analysis to date, we expect the recognition of credit losses to accelerate under the new standard. We are continuing to assess the extent of the impact on the allowance for credit losses which will be impacted by our portfolio and the macroeconomic factors on the date of adoption. We plan to adopt the new guidance on January 1, 2020.
ASU 2017-04, Intangibles-Goodwill and Other (Topic 350): Simplifying the Test for Goodwill Impairment	The standard simplifies the subsequent measurement of goodwill by eliminating Step 2 from the goodwill impairment test. The ASU requires an entity to compare the fair value of a reporting unit with its carrying amount and recognize an impairment charge for the amount by which the carrying value exceeds the fair value of the reporting unit. Additionally, an entity should consider income tax effects from any tax deductible goodwill on the carrying amount of the reporting unit when measuring the goodwill impairment loss.	January 1, 2020, early adoption permitted	We are evaluating the impacts of early adoption, and will apply this standard prospectively upon adoption.
ASU 2018-13, Fair Value Measurement (Topic 820): Disclosure Framework-Changes to the Disclosure Requirements for Fair Value Measurement	The standard eliminates, amends and adds disclosure requirements for fair value measurements.	January 1, 2020, early adoption permitted, including partial early adoption. Provisions that eliminate or amend disclosures can be early adopted without early adopting the new disclosure requirements.	We have elected to early adopt the provisions of the new standard that eliminate or amend disclosures as of December 31, 2018 and our disclosures were modified accordingly. The provisions of the new standard that add disclosures will be adopted upon the effective date of the standard.
ASU 2018-15, Intangibles-Goodwill and Other-Internal-Use Software (Subtopic 350-40): Customer's Accounting for Implementation Costs Incurred in a Cloud Computing Arrangement. That Is a Service Contract (a consensus of the Financial Accounting Standards Board Emerging Issues Task Force)	This standard addresses accounting for fees paid by a customer for implementation, set-up and other upfront costs incurred in a cloud computing arrangement that is hosted by the vendor, i.e., a service contract. The new guidance aligns treatment for capitalization of implementation costs with guidance on internal-use software.	January 1, 2020, early adoption permitted	We are currently evaluating the impact of the new standard and the early adoption provisions.

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Relevant standards that were adopted in the first quarter of 2019:

We adopted ASU 2016-02, Leases (Topic 842) and relevant amendments, effective January 1, 2019. The standard represents a change to lease accounting and requires all leases, other than short-term leases, to be reported on the balance sheet through recognition of a right-of-use asset and a corresponding liability for future lease obligations. The standard also requires incremental disclosures for assets, expenses, and cash flows associated with leases, as well as a maturity analysis of lease liabilities. We adopted Topic 842 by applying the transition method whereby comparative periods have not been restated, and no adjustment to retained earnings was required. Upon adoption of the standard, we recognized right-of-use assets of approximately \$0.9 billion and lease liabilities of approximately \$1.1 billion. This increase largely relates to the present value of future minimum lease payments due under existing operating leases of office space. No material changes are expected to the recognition of lease expenses in the Consolidated Statement of Income as a result of the adoption of Topic 842. For adoption, we elected Topic 842's package of three practical expedients, and (1) did not reassess whether any expired or existing contracts are or contain leases, (2) did not reassess the lease classification for any expired or existing leases, and (3) did not reassess initial direct costs for any existing leases. In addition, we made an accounting policy election not to apply the recognition requirements to short-term leases, and elected the practical expedient to not separate lease and nonlease components of leases.

We adopted ASU 2017-08, Receivables - Nonrefundable Fees and Other Costs (Subtopic 310-20): Premium amortization on Purchased Callable Debt Securities, effective January 1, 2019. The standard shortens the amortization period for certain purchased callable debt securities to the earliest call date. The standard does not impact debt securities which are held at a discount. The guidance requires a cumulative effect of initial application to be recognized in retained earnings at the beginning of the period of adoption. The impact to beginning retained earnings was not material.

We adopted ASU 2018-02, Income Statement - Reporting Comprehensive Income (Topic 220): Reclassification of Certain Tax Effects from Accumulated Other Comprehensive Income, effective January 1, 2019. This standard provides an election to reclassify the stranded tax effects resulting from the enactment of the Tax Cuts and Jobs Act of 2017, from accumulated other comprehensive income to retained earnings. Upon adoption of the standard we reclassified approximately \$84 million of stranded tax effects.

Change in Accounting Policy

In the first quarter of 2019, we voluntarily changed our accounting method under FASB ASC 323, *Investments-Equity Method and Joint Ventures*, for investments in LIHTC from the equity method of accounting to the proportional amortization method of accounting. While both methods of accounting are acceptable under U.S. GAAP, we believe the proportional method is preferable because it more fairly represents the economics of investments in LIHTC, which are made primarily for the purpose of receiving tax credits and other tax benefits. In addition, this method aligns to the method typically used by the companies within our industry which have similar investments. In addition to the change in the timing of the recognition of income on investments in LIHTC, amortization of the investments in LIHTC is now recorded fully within the income tax expense line instead of the processing fees and other line on the consolidated statements of operations.

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This change in accounting method has been applied retrospectively to all prior periods presented herein being revised, resulting in a reduction in the opening balance of retained earnings as of January 1, 2018 of \$47 million. In addition, the following table presents the effect of the changes on financial statement line items for prior periods presented:

(In millions)	Consolidated Statement of Condition Impact December 31, 2018		
	As Originally Reported ⁽¹⁾	Effect of Change	As Adjusted
Assets:			
Other assets	\$34,434	\$ (30)	\$34,404
Total assets	\$244,626	\$ (30)	\$244,596
Liabilities and stockholders' equity:			
Accrued expenses and other liabilities	\$24,209	\$ 23	\$24,232
Retained earnings	20,606	(53)	20,553
Total liabilities and stockholders' equity	\$244,626	\$ (30)	\$244,596
(Dollars in millions, except per share amounts)	Consolidated Statement of Income Impact Three Months Ended March 31, 2018		
	As Originally Reported ⁽¹⁾	Effect of Change	As Adjusted
Processing fees and other	\$52	\$ 25	\$ 77
Total fee revenue	2,390	25	2,415
Income tax expense	102	27	129
Net income	\$661	\$ (2)	\$ 659
Earnings per common share:			
Basic	\$1.65	\$ (.01)	\$ 1.64
Diluted	1.62	—	1.62

⁽¹⁾ In the first quarter of 2019, we reclassified certain immaterial revenues and expenses related to an affiliated entity from a net presentation to a gross presentation. Previously reported amounts for quarterly periods in 2018 have been reclassified to conform to the 2019 presentation. The impact of change to the statement of cash flows is immaterial.

The following table presents what our results would have been had we continued to utilize the equity method to record investments in LIHTC in the first quarter of 2019:

(Dollars in millions, except per share amounts)	Consolidated Statement of Income Impact Three Months Ended March 31, 2019		
	As Computed under Equity Method	Effect of Change	As Reported under the Proportional Amortization Method
Processing fees and other	\$169	\$ 22	\$ 191
Total fee revenue	2,238	22	22,260
Income tax expense	105	22	22,127
Net income	\$508	\$ —	\$ 508
Earnings per common share:			
Basic	\$1.20	\$ —	\$ 1.20
Diluted	1.18	—	1.18

Note 2. Fair Value

Fair Value Measurements

We carry trading account assets and liabilities, AFS debt securities, certain equity securities and various types of derivative financial instruments, at fair value in our consolidated statement of condition on a recurring basis. Changes in the fair values of these financial assets and liabilities are recorded either as components of our consolidated statement of income or as components of AOCI within shareholders' equity in our consolidated statement of condition.

We measure fair value for the above-described financial assets and liabilities in conformity with U.S. GAAP that governs the measurement of the fair value of financial instruments. Management believes that its valuation techniques and underlying assumptions used to measure fair value conform to the provisions of U.S. GAAP. We categorize the financial assets and liabilities that we carry at fair value based on a prescribed three-level valuation hierarchy. For information about our valuation techniques for financial assets and financial liabilities measured at fair value and the

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fair value hierarchy, refer to pages 129 to 136 in Note 2 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following tables present information with respect to our financial assets and liabilities carried at fair value in our consolidated statement of condition on a recurring basis as of the dates indicated:

Fair Value Measurements on a Recurring Basis					
As of March 31, 2019					
(In millions)	Quoted Prices in Active Markets (Level 1)	Pricing Methods with Significant Observable Market Inputs (Level 2)	Pricing Methods with Significant Unobservable Market Inputs (Level 3)	Impact of Netting ⁽¹⁾	Total Net Carrying Value in Consolidated Statement of Condition
Assets:					
Trading account assets:					
U.S. government securities	\$ 34	\$ —	\$ —		\$ 34
Non-U.S. government securities	148	176	—		324
Other	—	498	—		498
Total trading account assets	182	674	—		856
Available-for-sale investment securities:					
U.S. Treasury and federal agencies:					
Direct obligations	1,041	—	—		1,041
Mortgage-backed securities	—	20,043	—		20,043
Total U.S. Treasury and federal agencies	1,041	20,043	—		21,084
Asset-backed securities:					
Student loans	—	481	—		481
Credit cards	—	586	—		586
Collateralized loan obligations	—	218	668		886
Total asset-backed securities	—	1,285	668		1,953
Non-U.S. debt securities:					
Mortgage-backed securities	—	1,517	—		1,517
Asset-backed securities	—	884	627		1,511
Government securities	—	12,572	—		12,572
Other ⁽²⁾	—	6,531	45		6,576
Total non-U.S. debt securities	—	21,504	672		22,176
State and political subdivisions	—	1,940	—		1,940
Collateralized mortgage obligations	—	129	—		129
Other U.S. debt securities	—	1,720	—		1,720
Total available-for-sale investment securities	1,041	46,621	1,340		49,002
Other assets:					
Derivative instruments:					
Foreign exchange contracts	—	11,140	4	\$ (6,966)	4,178
Total derivative instruments	—	11,140	4	(6,966)	4,178
Other	—	442	—	—	442
Total assets carried at fair value	\$ 1,223	\$ 58,877	\$ 1,344	\$ (6,966)	\$ 54,478
Liabilities:					
Accrued expenses and other liabilities:					
Derivative instruments:					
Foreign exchange contracts	\$ —	\$ 11,297	\$ 3	\$ (7,519)	\$ 3,781

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Interest rate contracts	17	52	—	—	69
Other derivative contracts	—	228	—	—	228
Total derivative instruments	17	11,577	3	(7,519)	4,078
Total liabilities carried at fair value	\$17	\$ 11,577	\$ 3	\$ (7,519)	\$ 4,078

⁽¹⁾ Represents counterparty netting against level 2 financial assets and liabilities where a legally enforceable master netting agreement exists between us and the counterparty. Netting also reflects asset and liability reductions of \$0.64 billion and \$1.19 billion, respectively, for cash collateral received from and provided to derivative counterparties.

⁽²⁾ As of March 31, 2019, the fair value of other non-U.S. debt securities included \$1.05 billion of covered bonds and \$1.33 billion of corporate bonds.

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(In millions)	Fair Value Measurements on a Recurring Basis				Total Net Carrying Value in Consolidated Statement of Condition
	As of December 31, 2018	Quoted Market Prices in Active Markets (Level 1)	Pricing Methods with Significant Observable Market Inputs (Level 2)	Pricing Methods with Significant Unobservable Market Inputs (Level 3)	
Assets:					
Trading account assets:					
U.S. government securities	\$34	\$ —	\$ —		\$ 34
Non-U.S. government securities	146	179	—		325
Other	—	501	—		501
Total trading account assets	180	680	—		860
Available-for-sale investment securities:					
U.S. Treasury and federal agencies:					
Direct obligations	1,039	—	—		1,039
Mortgage-backed securities	—	15,968	—		15,968
Total U.S. Treasury and federal agencies	1,039	15,968	—		17,007
Asset-backed securities:					
Student loans	—	541	—		541
Credit cards	—	583	—		583
Collateralized loan obligations	—	—	593		593
Total asset-backed securities	—	1,124	593		1,717
Non-U.S. debt securities:					
Mortgage-backed securities	—	1,682	—		1,682
Asset-backed securities	—	943	631		1,574
Government securities	—	12,793	—		12,793
Other ⁽²⁾	—	6,544	58		6,602
Total non-U.S. debt securities	—	21,962	689		22,651
State and political subdivisions	—	1,918	—		1,918
Collateralized mortgage obligations	—	195	2		197
Other U.S. debt securities	—	1,658	—		1,658
Total available-for-sale investment securities	1,039	42,825	1,284		45,148
Other assets:					
Derivative instruments:					
Foreign exchange contracts	—	16,382	4	\$(11,210)	5,176
Interest rate contracts	13	—	—	—	13
Total derivative instruments	13	16,382	4	(11,210)	5,189
Other	—	395	—	—	395
Total assets carried at fair value	\$1,232	\$ 60,282	\$ 1,288	\$(11,210)	\$ 51,592
Liabilities:					
Accrued expenses and other liabilities:					
Derivative instruments:					
Foreign exchange contracts	\$—	\$ 16,518	\$ 4	\$(11,564)	\$ 4,958
Interest rate contracts	—	71	—	—	71
Other derivative contracts	—	214	—	—	214
Total derivative instruments	—	16,803	4	(11,564)	5,243

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Total liabilities carried at fair value	\$—	\$ 16,803	\$ 4	\$(11,564)	\$ 5,243
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⁽¹⁾ Represents counterparty netting against level 2 financial assets and liabilities where a legally enforceable master netting agreement exists between us and the counterparty. Netting also reflects asset and liability reductions of \$0.99 billion and \$1.34 billion, respectively, for cash collateral received from and provided to derivative counterparties.

⁽²⁾ As of December 31, 2018, the fair value of other non-U.S. debt securities included \$1.30 billion of covered bonds and \$1.33 billion of corporate bonds.

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The following tables present activity related to our level 3 financial assets during the first quarters of 2019 and 2018, respectively. Transfers into and out of level 3 are reported as of the beginning of the period presented. During the first quarter of 2018, transfers into level 3 were primarily related to certain ABS, including non-US debt securities. During the first quarter of 2019, there were no transfers into level 3. During the first quarters of 2019 and 2018, transfers out of level 3 were mainly related to certain ABS, municipal bonds and non-U.S. MBS, for which fair value was measured using prices for which observable market information became available.

Fair Value Measurements Using Significant Unobservable Inputs
Three Months Ended March 31, 2019

(In millions)	Fair Value as of December 31, 2018		Total Realized and Unrealized Gains (Losses)		Purchases	Sales	Settlements	Transfers into Level 3	Transfers out of Level 3	Fair Value as of March 31, 2019(1)	Change in Unrealized Gains (Losses) Related to Financial Instruments Held as of March 31, 2019
	Recorded in Revenue(1)	Recorded in Other Comprehensive Income(1)									
Assets:											
Available-for-sale Investment securities:											
Asset-backed securities:											
Collateralized loan obligations	\$593	\$ 1	\$ (2)	\$ 132	\$ —	\$(56)	\$ —	\$ —	\$ —	\$ 668	
Total asset-backed securities	593	1	(2)	132	—	(56)	—	—	—	668	
Non-U.S. debt securities:											
Asset-backed securities	631	—	(2)	9	—	(11)	—	—	—	627	
Other	58	—	—	—	—	(1)	—	(12)	(12)	45	
Total non-U.S. debt securities	689	—	(2)	9	—	(12)	—	(12)	(12)	672	
Collateralized mortgage obligations	2	—	—	—	—	(2)	—	—	—	—	
Total Available-for-sale investment securities	1,284	1	(4)	141	—	(70)	—	(12)	(12)	1,340	
Derivative instruments:											
Foreign exchange contracts	4	(3)	—	3	—	—	—	—	—	4	\$ (1)
Total derivative instruments	4	(3)	—	3	—	—	—	—	—	4	(1)
Total assets carried at fair value	\$1,288	\$ (2)	\$ (4)	\$ 144	\$ —	\$(70)	\$ —	\$(12)	\$(12)	\$1,344	\$ (1)

(1) Total realized and unrealized gains (losses) on AFS investment securities are included within gains (losses) related to investment securities, net. Total realized and unrealized gains (losses) on derivative instruments are included within foreign exchange trading services.

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Fair Value Measurements Using Significant Unobservable Inputs
Three Months Ended March 31, 2018

(In millions)	Fair Value as of December 31, 2017		Total Realized and Unrealized Gains (Losses)		Purchases	Sales	Settlements	Transfers into Level 3	Transfers out of Level 3	Fair Value as of March 31, 2018(1)	Change in Unrealized Gains (Losses) Related to Financial Instruments Held as of March 31, 2018	
	Recorded in Revenue(1)	Recorded in Other Comprehensive Income(1)	Recorded in Revenue(1)	Recorded in Other Comprehensive Income(1)								
Assets:												
Available-for-sale Investment securities:												
Asset-backed securities:												
Collateralized loan obligations	\$ 1,358	\$ 1	\$ (1)	\$ 318	\$ 318	\$ (636)	\$ (5)	\$ —	\$ (209)	\$ 826	\$ 826	
Total asset-backed securities	1,358	1	(1)	318	318	(636)	(5)	—	(209)	826	826	
Non-U.S. debt securities:												
Mortgage-backed securities	119	—	—	—	—	—	—	—	(119)	—	—	
Asset-backed securities	402	—	—	110	110	(310)	2	68	—	272	272	
Other	204	—	—	—	—	—	(26)	—	—	178	178	
Total non-U.S. debt securities	725	—	—	110	110	(310)	(24)	68	(119)	450	450	
State and political subdivisions	43	—	—	—	—	—	(1)	—	(5)	37	37	
Total Available-for-sale investment securities	2,126	1	(1)	428	428	(946)	(30)	68	(333)	1,313	1,313	
Other assets:												
Derivative instruments:												
Foreign exchange contracts	1	(2)	—	4	4	—	—	—	—	3	\$ (2)	
Total derivative instruments	1	(2)	—	4	4	—	—	—	—	3	(2)	
Total assets carried at fair value	\$ 2,127	\$ (1)	\$ (1)	\$ 432	\$ 432	\$ (946)	\$ (30)	\$ 68	\$ (333)	\$ 1,316	\$ (2)	

(1) Total realized and unrealized gains (losses) on AFS investment securities are included within gains (losses) related to investment securities, net. Total realized and unrealized gains (losses) on derivative instruments are included within foreign exchange trading services.

The following table presents quantitative information, as of the dates indicated, about the valuation techniques and significant unobservable inputs used in the valuation of our level 3 financial assets and liabilities measured at fair value on a recurring basis for which we use internally-developed pricing models. The significant unobservable inputs for our level 3 financial assets and liabilities whose fair value is measured using pricing information from non-binding broker/dealer quotes are not included in the table, as the specific inputs applied are not provided by the broker/dealer.

(Dollars in millions)	Quantitative Information about Level 3 Fair Value Measurements				Weighted-Average	
	Fair Value As of March 31, 2019	Fair Value As of December 31, 2018	Valuation Technique	Significant Unobservable Input(1)	As of March 31, 2019	As of December 31, 2018
Significant unobservable inputs readily available to State Street:						
Assets:						
Derivative Instruments, foreign exchange contracts	\$ 4	\$ 4	Option model	Volatility	7.8 %	11.4 %
Total	\$ 4	\$ 4				
Liabilities:						
Derivative instruments, foreign exchange contracts	\$ 3	\$ 4	Option model	Volatility	7.3 %	11.4 %
Total	\$ 3	\$ 4				

⁽¹⁾ Significant changes in these unobservable inputs may result in significant changes in fair value measurement of the derivative instrument.

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Fair Value Estimates

Estimates of fair value for financial instruments not carried at fair value on a recurring basis in our consolidated statement of condition are generally subjective in nature, and are determined as of a specific point in time based on the characteristics of the financial instruments and relevant market information. The following tables present the reported amounts and estimated fair values of the financial assets and liabilities not carried at fair value on a recurring basis, as they would be categorized within the fair value hierarchy, as of the dates indicated:

(In millions)	Reported Amount	Estimated Fair Value	Fair Value Hierarchy		
			Quoted Prices in Active Markets (Level 1)	Market Pricing with Significant Observable Market Inputs (Level 2)	Pricing Methods with Significant Unobservable Market Inputs (Level 3)
March 31, 2019					
Financial Assets:					
Cash and due from banks	\$ 4,469	\$ 4,469	\$ 4,469	\$ —	\$ —
Interest-bearing deposits with banks	53,864	53,864	—	53,864	—
Securities purchased under resale agreements	1,522	1,522	—	1,522	—
Investment securities held-to-maturity	41,145	40,971	13,198	27,652	121
Net loans	23,311	23,288	—	22,245	1,043
Other ⁽¹⁾	8,500	8,500	—	8,500	—
Financial Liabilities:					
Deposits:					
Non-interest-bearing	\$ 35,295	\$ 35,295	\$—	\$ 35,295	\$ —
Interest-bearing - U.S.	62,988	62,988	—	62,988	—
Interest-bearing - non-U.S.	64,188	64,188	—	64,188	—
Securities sold under repurchase agreements	1,420	1,420	—	1,420	—
Other short-term borrowings	947	947	—	947	—
Long-term debt	11,182	11,319	—	11,142	177
Other ⁽¹⁾	8,500	8,500	—	8,500	—

⁽¹⁾ Represents a portion of underlying client assets related to our enhanced custody business, which clients have allowed us to transfer and re-pledge.

(In millions)	Reported Amount	Estimated Fair Value	Fair Value Hierarchy		
			Quoted Prices in Active Markets (Level 1)	Market Pricing with Significant Observable Market Inputs (Level 2)	Pricing Methods with Significant Unobservable Market Inputs (Level 3)
December 31, 2018					
Financial Assets:					
Cash and due from banks	\$ 3,597	\$ 3,597	\$ 3,597	\$ —	\$ —
Interest-bearing deposits with banks	73,040	73,040	—	73,040	—
Securities purchased under resale agreements	4,679	4,679	—	4,679	—
Investment securities held-to-maturity	41,914	41,351	14,541	26,688	122
Net loans (excluding leases) ⁽¹⁾	25,722	25,561	—	24,648	913
Other ⁽²⁾	8,500	8,500	—	8,500	—
Financial Liabilities:					
Deposits:					
Non-interest-bearing	\$ 44,804	\$ 44,804	\$—	\$ 44,804	\$ —

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Interest-bearing - U.S.	66,235	66,235	—	66,235	—
Interest-bearing - non-U.S.	69,321	69,321	—	69,321	—
Securities sold under repurchase agreements	1,082	1,082	—	1,082	—
Other short-term borrowings	3,092	3,092	—	3,092	—
Long-term debt	11,093	11,048	—	10,865	183
Other ⁽²⁾	8,500	8,500	—	8,500	—

⁽¹⁾ Includes \$10 million of loans classified as held-for-sale that were measured at fair value on a non-recurring basis as of December 31, 2018.

⁽²⁾ Represents a portion of underlying client assets related to our enhanced custody business, which clients have allowed us to transfer and re-pledge.

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Note 3. Investment Securities

Investment securities held by us are classified as either trading account assets, AFS, HTM or equity securities held at fair value at the time of purchase and reassessed periodically, based on management's intent. For additional information on our accounting for investment securities, refer to page 137 in Note 3 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following table presents the amortized cost, fair value and associated unrealized gains and losses of AFS and HTM investment securities as of the dates indicated:

(In millions)	March 31, 2019			December 31, 2018				
	Amortized Cost	Gross Unrealized Gains	Unrealized Losses	Fair Value	Amortized Cost	Gross Unrealized Gains	Unrealized Losses	Fair Value
Available-for-sale:								
U.S. Treasury and federal agencies:								
Direct obligations	\$1,035	\$6	\$ —	\$1,041	\$1,035	\$4	\$ —	\$1,039
Mortgage-backed securities	20,020	132	109	20,043	16,112	37	181	15,968
Total U.S. Treasury and federal agencies	21,055	138	109	21,084	17,147	41	181	17,007
Asset-backed securities:								
Student loans ⁽¹⁾	477	4	—	481	538	4	1	541
Credit cards	612	—	26	586	609	—	26	583
Collateralized loan obligations	889	—	3	886	594	1	2	593
Total asset-backed securities	1,978	4	29	1,953	1,741	5	29	1,717
Non-U.S. debt securities:								
Mortgage-backed securities	1,520	1	4	1,517	1,687	—	5	1,682
Asset-backed securities	1,517	—	6	1,511	1,580	—	6	1,574
Government securities	12,489	97	14	12,572	12,816	22	45	12,793
Other ⁽²⁾	6,520	59	3	6,576	6,600	18	16	6,602
Total non-U.S. debt securities	22,046	157	27	22,176	22,683	40	72	22,651
State and political subdivisions ⁽³⁾	1,903	39	2	1,940	1,905	20	7	1,918
Collateralized mortgage obligations	130	—	1	129	200	—	3	197
Other U.S. debt securities	1,715	12	7	1,720	1,683	1	26	1,658
Total	\$48,827	\$350	\$ 175	\$49,002	\$45,359	\$107	\$ 318	\$45,148
Held-to-maturity:								
U.S. Treasury and federal agencies:								
Direct obligations	\$13,369	\$—	\$ 123	\$13,246	\$14,794	\$—	\$ 199	\$14,595
Mortgage-backed securities	22,568	76	250	22,394	21,647	24	518	21,153
Total U.S. Treasury and federal agencies	35,937	76	373	35,640	36,441	24	717	35,748
Asset-backed securities:								
Student loans ⁽¹⁾	3,286	26	16	3,296	3,191	35	10	3,216
Credit cards	—	—	—	—	193	—	—	193
Other	1	—	—	1	1	—	—	1
Total asset-backed securities	3,287	26	16	3,297	3,385	35	10	3,410
Non-U.S. debt securities:								
Mortgage-backed securities	575	82	8	649	638	77	9	706
Asset-backed securities	98	—	—	98	223	—	—	223
Government securities	399	1	—	400	358	1	—	359
Other	44	—	—	44	46	—	—	46

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Total non-U.S. debt securities	1,116	83	8	1,191	1,265	78	9	1,334
Collateralized mortgage obligations	805	40	2	843	823	38	2	859
Total	\$41,145	\$225	\$ 399	\$40,971	\$41,914	\$175	\$ 738	\$41,351

⁽¹⁾ Primarily comprised of securities guaranteed by the federal government with respect to at least 97% of defaulted principal and accrued interest on the underlying loans.

⁽²⁾ As of March 31, 2019 and December 31, 2018, the fair value of other non-U.S. debt securities included \$1.05 billion and \$1.30 billion, respectively, of covered bonds and \$1.33 billion of corporate bonds for both periods.

⁽³⁾ As of March 31, 2019 and December 31, 2018, the fair value of state and political subdivisions includes securities in trusts of \$1.06 billion and \$1.05 billion, respectively. Additional information about these trusts is provided in Note 11.

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Aggregate investment securities with carrying values of approximately \$40.06 billion and \$38.87 billion as of March 31, 2019 and December 31, 2018, respectively, were designated as pledged for public and trust deposits, short-term borrowings and for other purposes as provided by law.

The following tables present the aggregate fair values of AFS and HTM investment securities that have been in a continuous unrealized loss position for less than 12 months, and those that have been in a continuous unrealized loss position for 12 months or longer, as of the dates indicated:

(In millions)	As of March 31, 2019					
	Less than 12 months		12 months or longer		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
Available-for-sale:						
U.S. Treasury and federal agencies:						
Mortgage-backed securities	\$2,565	\$ 4	\$5,147	\$ 105	\$7,712	\$ 109
Total U.S. Treasury and federal agencies	2,565	4	5,147	105	7,712	109
Asset-backed securities:						
Student loans	10	—	212	—	222	—
Credit cards	89	1	497	25	586	26
Collateralized loan obligations	586	3	—	—	586	3
Total asset-backed securities	685	4	709	25	1,394	29
Non-U.S. debt securities:						
Mortgage-backed securities	890	3	111	1	1,001	4
Asset-backed securities	992	6	—	—	992	6
Government securities	3,345	14	—	—	3,345	14
Other	721	2	189	1	910	3
Total non-U.S. debt securities	5,948	25	300	2	6,248	27
State and political subdivisions	—	—	254	2	254	2
Collateralized mortgage obligations	—	—	129	1	129	1
Other U.S. debt securities	116	2	500	5	616	7
Total	\$9,314	\$ 35	\$7,039	\$ 140	\$16,353	\$ 175
Held-to-maturity:						
U.S. Treasury and federal agencies:						
Direct obligations	\$2,210	\$ 25	\$11,036	\$ 98	\$13,246	\$ 123
Mortgage-backed securities	357	1	14,205	249	14,562	250
Total U.S. Treasury and federal agencies	2,567	26	25,241	347	27,808	373
Asset-backed securities:						
Student loans	1,155	7	507	9	1,662	16
Total asset-backed securities	1,155	7	507	9	1,662	16
Non-U.S. debt securities:						
Mortgage-backed securities	99	2	116	6	215	8
Total non-U.S. debt securities	99	2	116	6	215	8
Collateralized mortgage obligations	101	—	48	2	149	2
Total	\$3,922	\$ 35	\$25,912	\$ 364	\$29,834	\$ 399

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(In millions)	As of December 31, 2018					
	Less than 12 months		12 months or longer		Total	
	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses	Fair Value	Gross Unrealized Losses
Available-for-sale:						
U.S. Treasury and federal agencies:						
Mortgage-backed securities	\$5,058	\$ 21	\$5,089	\$ 160	\$10,147	\$ 181
Total U.S. Treasury and federal agencies	5,058	21	5,089	160	10,147	181
Asset-backed securities:						
Student loans	106	—	218	1	324	1
Credit cards	90	—	493	26	583	26
Collateralized loan obligations	548	2	—	—	548	2
Total asset-backed securities	744	2	711	27	1,455	29
Non-U.S. debt securities:						
Mortgage-backed securities	1,407	4	118	1	1,525	5
Asset-backed securities	1,479	6	—	—	1,479	6
Government securities	5,478	45	—	—	5,478	45
Other	2,167	12	226	4	2,393	16
Total non-U.S. debt securities	10,531	67	344	5	10,875	72
State and political subdivisions	365	3	244	4	609	7
Collateralized mortgage obligations	181	3	14	—	195	3
Other U.S. debt securities	861	14	484	12	1,345	26
Total	\$17,740	\$ 110	\$6,886	\$ 208	\$24,626	\$ 318
Held-to-maturity:						
U.S. Treasury and federal agencies:						
Direct obligations	\$2,192	\$ 45	\$12,403	\$ 154	\$14,595	\$ 199
Mortgage-backed securities	6,502	103	10,648	415	17,150	518
Total U.S. Treasury and federal agencies	8,694	148	23,051	569	31,745	717
Asset-backed securities:						
Student loans	481	4	536	6	1,017	10
Total asset-backed securities	481	4	536	6	1,017	10
Non-U.S. debt securities:						
Mortgage-backed securities	184	2	119	7	303	9
Total non-U.S. debt securities	184	2	119	7	303	9
Collateralized mortgage obligations	102	1	51	1	153	2
Total	\$9,461	\$ 155	\$23,757	\$ 583	\$33,218	\$ 738

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The following table presents contractual maturities of debt investment securities by carrying amount as of March 31, 2019. The maturities of certain ABS, MBS, and CMOs are based on expected principal payments. Actual maturities may differ from these expected maturities since certain borrowers have the right to prepay obligations with or without prepayment penalties.

(In millions)	As of March 31, 2019				Total
	Under 11 to 5 Year	6 to 10 Years	Over 10 Years		
Available-for-sale:					
U.S. Treasury and federal agencies:					
Direct obligations	\$235	\$806	\$—	\$—	\$1,041
Mortgage-backed securities	44	991	2,490	16,518	20,043
Total U.S. Treasury and federal agencies	279	1,797	2,490	16,518	21,084
Asset-backed securities:					
Student loans	94	160	161	66	481
Credit cards	200	297	89	—	586
Collateralized loan obligations	—	418	423	45	886
Total asset-backed securities	294	875	673	111	1,953
Non-U.S. debt securities:					
Mortgage-backed securities	266	552	171	528	1,517
Asset-backed securities	368	561	446	136	1,511
Government securities	3,178	6,802	2,592	—	12,572
Other	1,141	4,860	554	21	6,576
Total non-U.S. debt securities	4,953	12,775	3,763	685	22,176
State and political subdivisions	180	791	525	444	1,940
Collateralized mortgage obligations	—	—	—	129	129
Other U.S. debt securities	152	1,292	276	—	1,720
Total	\$5,858	\$17,530	\$7,727	\$17,887	\$49,002
Held-to-maturity:					
U.S. Treasury and federal agencies:					
Direct obligations	\$3,225	\$10,096	\$11	\$37	\$13,369
Mortgage-backed securities	31	236	1,538	20,763	22,568
Total U.S. Treasury and federal agencies	3,256	10,332	1,549	20,800	35,937
Asset-backed securities:					
Student loans	7	255	383	2,641	3,286
Credit cards	—	—	—	—	—
Other	—	—	—	1	1
Total asset-backed securities	7	255	383	2,642	3,287
Non-U.S. debt securities:					
Mortgage-backed securities	134	40	7	394	575
Asset-backed securities	98	—	—	—	98
Government securities	286	113	—	—	399
Other	44	—	—	—	44
Total non-U.S. debt securities	562	153	7	394	1,116
Collateralized mortgage obligations	1	313	14	477	805
Total	\$3,826	\$11,053	\$1,953	\$24,313	\$41,145

Interest income related to debt securities is recognized in our consolidated statement of income using the effective interest method, or on a basis approximating a level rate of return over the contractual or estimated life of the security. The level rate of return considers any non-refundable fees or costs, as well as purchase premiums or discounts, resulting in amortization or accretion, accordingly.

For certain debt securities acquired which are considered to be beneficial interests in securitized financial assets, the excess of our estimate of undiscounted future cash flows from these securities over their initial recorded investment is accreted into interest income on a level-yield basis over the securities' estimated remaining terms. Subsequent decreases in these securities' expected future cash flows are either recognized prospectively through an adjustment of the yields on the securities over their remaining terms, or are evaluated for OTTI. Increases in expected future cash flows are recognized prospectively over the securities' estimated remaining terms through the recalculation of their yields.

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Impairment

The following table presents a roll-forward with respect to net impairment losses that have been recognized in income for the periods indicated:

(In millions)	Three Months Ended March 31, 2019 2018	
Balance, beginning of period	\$78	\$ 77
Additions ⁽¹⁾ :		
Other-than-temporary-impairment recognized	1	1
Balance, end of period	\$79	\$ 78

⁽¹⁾ Additions represent securities with a first time credit impairment realized or when a subsequent credit impairment has occurred.

We conduct periodic reviews of individual securities to assess whether OTTI exists. For additional information about the review of securities for impairment, refer to pages 142 to 144 in Note 3 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

We recorded approximately \$1 million of OTTI in both the first quarter of 2019 and 2018, on non-U.S. residential MBS, which resulted from adverse changes in the timing of expected future cash flows from the securities.

After a review of the investment portfolio, taking into consideration current economic conditions, adverse situations that might affect our ability to fully collect principal and interest, the timing of future payments, the credit quality and performance of the collateral underlying MBS and ABS and other relevant factors, management considers the aggregate decline in fair value of the investment securities portfolio and the resulting gross pre-tax unrealized losses of \$574 million related to 832 securities as of March 31, 2019 to be temporary, and not the result of any material changes in the credit characteristics of the securities.

Note 4. Loans and Leases

We segregate our loans into two segments: commercial and financial loans and commercial real estate loans. We further classify commercial and financial loans as loans to investment funds, senior secured bank loans, loans to municipalities and other. These classifications reflect their risk characteristics, their initial measurement attributes and the methods we use to monitor and assess credit risk. For additional information on our loans and leases, including our internal risk-rating system used to assess our risk of credit loss for each loan or lease, refer to pages 145 to 147 in Note 4 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following table presents our recorded investment in loans and leases, by segment, as of the dates indicated:

(In millions)	March 31, December 31, 2019 2018	
Domestic:		
Commercial and financial:		
Loans to investment funds	\$ 11,935	\$ 15,050
Senior secured bank loans	3,516	3,490
Loans to municipalities	966	902
Other	34	37
Commercial real estate	976	874
Total domestic	17,427	20,353

Non-U.S.:

Commercial and financial:

Loans to investment funds	4,989	4,505
Senior secured bank loans	965	931
Total non-U.S.	5,954	5,436
Total loans and leases	23,381	25,789
Allowance for loan and lease losses	(70)	(67)
Loans and leases, net of allowance	\$ 23,311	\$ 25,722

The commercial and financial segment is composed primarily of floating-rate loans to mutual fund clients, purchased senior secured bank loans and loans to municipalities. Investment fund lending is composed of short-duration revolving credit lines providing liquidity to fund clients in support of their transaction flows associated with securities' settlement activities.

Certain loans are pledged as collateral for access to the Federal Reserve's discount window. As of March 31, 2019 and December 31, 2018, the loans pledged as collateral totaled \$7.2 billion and \$6.5 billion, respectively.

The following tables present our recorded investment in each class of loans and leases by credit quality indicator as of the dates indicated:

March 31, 2019 (In millions)	Commercial and Financial	Commercial Real Estate	Total Loans and Leases
Investment grade(1)	\$ 17,128	\$ 976	\$ 18,104
Speculative(2)	5,277	—	5,277
Total	\$ 22,405	\$ 976	\$ 23,381
December 31, 2018 (In millions)	Commercial and Financial	Commercial Real Estate	Total Loans and Leases
Investment grade(1)	\$ 19,599	\$ 874	\$ 20,473
Speculative(2)	5,308	—	5,308
Substandard(3)	8	—	8
Total	\$ 24,915	\$ 874	\$ 25,789

(1) Investment-grade loans and leases consist of counterparties with strong credit quality and low expected credit risk and probability of default. Ratings apply to counterparties with a strong capacity to support the timely repayment of any financial commitment.

(2) Speculative loans and leases consist of counterparties that face ongoing uncertainties or exposure to business, financial, or economic downturns. However, these counterparties may have financial flexibility or access to financial alternatives, which allow for financial commitments to be met.

(3) Substandard loans and leases consist of counterparties with well-defined weaknesses that jeopardize repayment with the possibility we will sustain some loss.

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As of March 31, 2019 and December 31, 2018, we had no loans or leases on non-accrual status and no loans or leases contractually past due.

In certain circumstances, we restructure troubled loans by granting concessions to borrowers experiencing financial difficulty. Once restructured, the loans are generally considered impaired until their maturity, regardless of whether the borrowers perform under the modified terms of the loans. There were no loans modified in troubled debt restructurings as of both March 31, 2019 and December 31, 2018.

We review all loans individually for indicators of impairment. Loans where indicators exist are evaluated individually for impairment at least quarterly. For those loans where no such indicators are identified, the loans are collectively evaluated for impairment. As of March 31, 2019, there were no indicators of impairment and no impaired loans. As of December 31, 2018, we had one impaired loan for \$8 million in the commercial and financial segment that was individually evaluated for impairment and deemed to be impaired. This loan was subsequently paid in full in January 2019.

Allowance for Loan and Lease Losses

The following table presents activity in the ALLL for the periods indicated:

(In millions)	Three Months Ended March 31, 2019 2018	
Allowance for loan and lease losses:		
Beginning balance	\$67	\$ 54
Provision for loan and lease losses ⁽¹⁾	4	—
Other ⁽²⁾	(1)	—
Ending balance	\$70	\$ 54

(1) The provisions and charge-offs for loans and leases were primarily attributable to exposure to purchased senior secured loans to non-investment grade loans.

(2) Consists primarily of FX translation.

Loans and leases are reviewed on a regular basis, and any provisions for loan and lease losses that are recorded reflect management's estimate of the amount necessary to maintain the ALLL losses at a level considered appropriate to absorb estimated incurred losses in the loan and lease portfolio.

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Note 5. Goodwill and Other Intangible Assets

The following table presents changes in the carrying amount of goodwill during the periods indicated:

(In millions)	Investment Servicing ⁽¹⁾	Investment Management	Total
Goodwill:			
Ending balance December 31, 2017	\$ 5,752	\$ 270	\$ 6,022
Acquisitions ⁽¹⁾	1,512	—	1,512
Foreign currency translation	(84)	(4)	(88)
Ending balance December 31, 2018	7,180	266	7,446
Acquisitions ⁽²⁾	121	—	121
Foreign currency translation	(18)	—	(18)
Ending balance March 31, 2019	\$ 7,283	\$ 266	\$ 7,549

⁽¹⁾ Investment Servicing includes our acquisition of CRD.

⁽²⁾ We have completed the purchase price accounting for the CRD acquisition as of March 31, 2019. Upon completion of valuation procedures related to the acquired assets and assumed liabilities, primarily the identifiable intangible assets, we recorded measurement period adjustments in the first quarter of 2019, resulting in an increase in the goodwill of \$112 million.

The following table presents changes in the net carrying amount of other intangible assets during the periods indicated:

(In millions)	Investment Servicing ⁽¹⁾	Investment Management	Total
Other intangible assets:			
Ending balance December 31, 2017	\$ 1,432	\$ 181	\$ 1,613
Acquisitions ⁽¹⁾	1,007	—	1,007
Amortization	(196)	(30)	(226)
Foreign currency translation	(25)	—	(25)
Ending balance December 31, 2018	2,218	151	2,369
Acquisitions ⁽²⁾	(93)	—	(93)
Amortization	(53)	(7)	(60)
Foreign currency translation	(8)	—	(8)
Ending balance March 31, 2019	\$ 2,064	\$ 144	\$ 2,208

⁽¹⁾ Investment Servicing includes our acquisition of CRD.

⁽²⁾ We have completed the purchase price accounting for the CRD acquisition as of March 31, 2019. Upon completion of valuation procedures related to the acquired assets and assumed liabilities, primarily the identifiable intangible assets, we recorded measurement period adjustments in the first quarter of 2019, resulting in a decrease in the fair value of intangible assets of \$93 million, with a corresponding increase to goodwill.

The following table presents the gross carrying amount, accumulated amortization and net carrying amount of other intangible assets by type as of the dates indicated:

(In millions)	March 31, 2019			December 31, 2018		
	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount	Gross Carrying Amount	Accumulated Amortization	Net Carrying Amount
Other intangible assets:						
Client relationships	\$ 3,144	\$ (1,639)	\$ 1,505	\$ 3,262	\$ (1,605)	\$ 1,657
Technology	403	(60)	343	389	(49)	340
Core deposits	673	(356)	317	676	(350)	326
Other	100	(57)	43	103	(57)	46
Total	\$ 4,320	\$ (2,112)	\$ 2,208	\$ 4,430	\$ (2,061)	\$ 2,369

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Note 6. Other Assets

The following table presents the components of other assets as of the dates indicated:

(In millions)	March 31, 2019	December 31, 2018
Securities borrowed ⁽¹⁾	\$23,929	\$ 19,575
Derivative instruments, net	4,178	5,189
Bank-owned life insurance	3,345	3,323
Investments in joint ventures and other unconsolidated entities ⁽²⁾	2,668	2,882
Receivable for securities settlement	969	531
Collateral, net	903	1,354
Right-of-use assets ⁽³⁾	899	—
Accounts receivable	760	343
Prepaid expenses	520	493
Income taxes receivable	100	129
Deferred tax assets, net of valuation allowance ⁽⁴⁾	100	113
Deposits with clearing organizations	58	58
Other	470	414
Total	\$38,899	\$ 34,404

⁽¹⁾ Refer to Note 8, for further information on the impact of collateral on our financial statement presentation of securities borrowing and securities lending transactions.

⁽²⁾ Includes certain equity securities held at fair value through profit and loss that were transferred from AFS as part of our adoption of ASU 2016-01.

⁽³⁾ We adopted ASU 2016-02, Leases (Topic 842) and relevant amendments, effective January 1, 2019. Refer to Note 1 for further information on this new accounting standard.

⁽⁴⁾ Deferred tax assets and liabilities recorded in our consolidated statement of condition are netted within the same tax jurisdiction.

Note 7. Derivative Financial Instruments

We use derivative financial instruments to support our clients' needs and to manage our interest rate and currency risks. These financial instruments consist of FX contracts such as forwards, futures and options contracts; interest rate contracts such as interest rate swaps (cross currency and single currency) and futures; and other derivative contracts. Derivative instruments used for risk management purposes that are highly effective in offsetting the risk being hedged are generally designated as hedging instruments in hedge accounting relationships while others are economic hedges and not designated in hedge accounting relationships. For additional information on our derivative financial instruments, including derivatives not designated as hedging instruments, refer to page 152 in Note 10 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

Derivatives Designated as Hedging Instruments

For additional information on our derivatives designated as hedging instruments, including our risk management objectives and hedging documentation

methodologies, refer to pages 152 to 153 in Note 10 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

Fair Value Hedges

Derivatives designated as fair value hedges are utilized to mitigate the risk of changes in the fair values of recognized assets and liabilities, including long-term debt, AFS securities, and foreign currency investment securities. We use interest rate or FX contracts in this manner to manage our exposure to changes in the fair value of hedged items caused by changes in interest rates or FX rates.

Changes in the fair value of the derivative and changes in fair value of the hedged item due to changes in the hedged risk are recognized in earnings in the same line item. If a hedge is terminated, all remaining adjustments to the carrying amount of the hedged item shall be amortized over a period that is consistent with the amortization of other discounts or premiums associated with the hedged item.

Cash Flow Hedges

Derivatives designated as cash flow hedges are utilized to offset the variability of cash flows of recognized assets or liabilities or forecasted transactions. We have entered into FX contracts to hedge the change in cash flows attributable to FX movements in foreign currency denominated investment securities.

Additionally, we have entered into interest rate swap agreements to hedge the forecasted cash flows associated with London Interbank Offered Rate (LIBOR) indexed floating-rate loans. The interest rate swaps synthetically convert the loan interest receipts from a variable-rate to a fixed-rate, thereby mitigating the risk attributable to changes in the LIBOR benchmark rate.

Changes in fair value of the derivatives designated as cash flow hedges are initially recorded in AOCI and then reclassified into earnings in the same period or periods during which the hedged forecasted transaction affects earnings and are presented in the same income statement line item as the earnings effect of the hedged item. If the hedge relationship is terminated, the change in fair value on the derivative recorded in AOCI is reclassified into earnings consistent with the timing of the hedged item. For hedge relationships that are discontinued because a forecasted transaction is not expected to occur according to the original hedge terms, any related derivative values recorded in AOCI are immediately recognized in earnings. As of March 31, 2019, the maximum maturity date of the underlying loans is approximately 3 years.

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Net Investment Hedges

Derivatives categorized as net investment hedges are entered into to protect the net investment in our foreign operations against adverse changes in exchange rates. We use FX forward contracts to convert the foreign currency risk to U.S. dollars to mitigate our exposure to fluctuations in FX rates. The changes in fair value of the FX forward contracts are recorded, net of taxes, in the foreign currency translation component of OCI.

The following table presents the aggregate contractual, or notional, amounts of derivative financial instruments including those entered into for trading and asset-and-liability management activities as of the dates indicated:

(In millions)	March 31, 2019	December 31, 2018
Derivatives not designated as hedging instruments:		
Interest rate contracts:		
Futures	\$ 4,387	\$ 2,348
Foreign exchange contracts:		
Forward, swap and spot	2,284,676	2,238,819
Options purchased	797	578
Options written	505	576
Futures	414	49
Other:		
Stable value contracts ⁽¹⁾	26,991	26,634
Deferred value awards ⁽²⁾	559	434
Derivatives designated as hedging instruments:		
Interest rate contracts:		
Swap agreements	10,596	10,596
Foreign exchange contracts:		
Forward and swap	3,050	3,412

⁽¹⁾ The notional value of the stable value contracts generally represents our maximum exposure. However, exposure to various stable value contracts is contractually limited to substantially lower amounts than the notional values, which represent the total assets of the stable value funds.

⁽²⁾ For additional information on our derivatives not designated as hedging instruments, including deferred value awards, refer to page 152 in Note 10 to the consolidated financial statements under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

Notional amounts are provided here as an indication of the volume of our derivative activity and serve as a reference to calculate the fair values of the derivative.

The following tables present the fair value of derivative financial instruments, excluding the impact of master netting agreements, recorded in our consolidated statement of condition as of the dates indicated.

The impact of master netting agreements is provided in Note 8.

(In millions)	March 31, 2019	December 31, 2018	March 31, 2019	December 31, 2018
	Derivative Assets ⁽¹⁾		Derivative Liabilities ⁽²⁾	
Derivatives not designated as hedging instruments:				
Foreign exchange contracts	\$11,123	\$ 16,369	\$11,240	\$ 16,434
Other derivative contracts	—	—	228	214
Total	\$11,123	\$ 16,369	\$11,468	\$ 16,648
Derivatives designated as hedging instruments:				
Foreign exchange contracts	\$21	\$ 17	\$60	\$ 88

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Interest rate contracts	—	13	69	71
Total	\$21	\$ 30	\$129	\$ 159

(1) Derivative assets are included within other assets in our consolidated statement of condition.

(2) Derivative liabilities are included within other liabilities in our consolidated statement of condition.

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The following tables present the impact of our use of derivative financial instruments on our consolidated statement of income for the periods indicated:

(In millions)	Location of Gain (Loss) on Derivative in Consolidated Statement of Income	Three Months Ended March 31,	
		2019	2018
		Amount of Gain (Loss) on Derivative Recognized in Consolidated Statement of Income	
Derivatives not designated as hedging instruments:			
Foreign exchange contracts	Foreign exchange trading services revenue	\$ 160	\$ 184
Foreign exchange contracts	Interest expense ⁽¹⁾	(39)	(15)
Interest rate contracts	Foreign exchange trading services revenue	(1)	(2)
Other derivative contracts	Foreign exchange trading services revenue	—	1
Other derivative contracts	Compensation and employee benefits	(74)	(65)
Total		\$ 46	\$ 103

⁽¹⁾ In the first quarter of 2018, approximately \$15 million of swap costs were reclassified from processing fees and other revenue within fee revenue to net interest income to conform to current presentation.

The following table shows the carrying amount and associated cumulative basis adjustments related to the application of hedge accounting that is included in the carrying amount of hedged assets and liabilities in fair value hedging relationships:

(In millions)	March 31, 2019		March 31, 2018	
	Hedged Items Currently Designated	Hedged Items No Longer Designated ⁽¹⁾	Hedged Items Currently Designated	Hedged Items No Longer Designated ⁽¹⁾
	Carrying Amount of Assets and Liabilities	Cumulative Hedge Accounting Basis Adjustments	Carrying Amount of Assets and Liabilities	Cumulative Hedge Accounting Basis Adjustments
Long-term debt	\$8,271	\$ (23)	\$ 1,198	\$ (17)
Available-for-sale securities	1,553	76	50	1
Total	\$9,824	\$ 53	\$ 1,248	\$ (16)

(In millions)	December 31, 2018		December 31, 2017	
	Hedged Items Currently Designated	Hedged Items No Longer Designated ⁽¹⁾	Hedged Items Currently Designated	Hedged Items No Longer Designated ⁽¹⁾
	Carrying Amount of Assets and Liabilities	Cumulative Hedge Accounting Basis Adjustments	Carrying Amount of Assets and Liabilities	Cumulative Hedge Accounting Basis Adjustments
Long-term debt	\$8,270	\$ (137)	\$ 1,197	\$ (20)
Available-for-sale securities	1,496	72	50	1
Total	\$9,766	\$ (65)	\$ 1,247	\$ (19)

⁽¹⁾ Represents hedged items no longer designated in qualifying fair value hedging relationships for which an associated basis adjustment exists at the balance sheet date.

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⁽²⁾ Does not include the carrying amount of hedged items when only foreign currency risk is the designated hedged risk. The carrying amount excluded for investment securities was zero and \$458 million for March 31, 2019 and December 31, 2018, respectively.

As of both March 31, 2019 and December 31, 2018, the total notional amount of the interest rate swaps of fair value hedges was \$9.30 billion.

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The following tables present the impact of our use of derivative financial instruments on our consolidated statement of income for the periods indicated:

(In millions)	Location of Gain (Loss) on Derivative in Consolidated Statement of Income	Three Months Ended March 31,		Hedged Item in Fair Value Hedging Relationship	Location of Gain (Loss) on Hedged Item in Consolidated Statement of Income	Three Months Ended March 31,		
		2019	2018			2019	2018	
		Amount of Gain (Loss) on Derivative Recognized in Consolidated Statement of Income				Amount of Gain (Loss) on Hedged Item Recognized in Consolidated Statement of Income		
Derivatives designated as fair value hedges:								
Foreign exchange contracts	Processing fees and other revenue	\$ —	\$ (13)	Investment securities	Processing fees and other revenue	\$ —	\$ 13	
Foreign exchange contracts	Processing fees and other revenue	—	248	Foreign exchange deposit	Processing fees and other revenue	—	(248)	
Interest rate contracts	Net interest income	106	21	Available-for-sale securities ⁽¹⁾	Net interest income	(102)	(21)	
Interest rate contracts	Net interest income	(3)	(167)	Long-term debt	Net interest income	4	(156)	
Total		\$ 103	\$ 89			\$ (98)	\$ (100)	

⁽¹⁾ In the first quarter of 2019, \$2 million of net unrealized losses on AFS investment securities designated in fair value hedges was recognized in OCI compared to \$18 million of net unrealized gains in the same period in 2018.

(In millions)	Amount of Gain or (Loss) Recognized in Other Comprehensive Income on Derivative	Three Months Ended March 31,		Location of Gain or (Loss) Reclassified from Accumulated Other Comprehensive Income into Income	Three Months Ended March 31,		
		2019	2018		2019	2018	
		Amount of Gain or (Loss) Recognized in Other Comprehensive Income on Derivative			Amount of Gain or (Loss) Reclassified from Accumulated Other Comprehensive Income into Income		
Derivatives designated as cash flow hedges:							
Interest rate contracts	\$ 10	\$ (20)	Net interest income		\$ (2)	\$ 1	
Foreign exchange contracts	27	(88)	Net interest income		7	7	
Total derivatives designated as cash flow hedges	\$ 37	\$ (108)			\$ 5	\$ 8	
Derivatives designated as net investment hedges:							
Foreign exchange contracts	\$ 20	\$ (36)	Gains (losses) related to investment securities, net		\$ —	\$ —	
Total derivatives designated as net investment hedges	\$ 20	\$ (36)			\$ —	\$ —	
Total	\$ 57	\$ (144)			\$ 5	\$ 8	

Derivatives Netting and Credit Contingencies
Netting

Derivatives receivable and payable as well as cash collateral from the same counterparty are netted in the consolidated statement of condition for those counterparties with whom we have legally binding master netting agreements in place. In addition to cash collateral received and transferred presented on a net basis, we also receive and transfer collateral in the form of securities, which mitigate credit risk but are not eligible for netting. Additional information on netting is provided in Note 8.

Credit Contingencies

Certain of our derivatives are subject to master netting agreements with our derivative counterparties containing credit risk-related contingent features, which

requires us to maintain an investment grade credit rating with the various credit rating agencies. If our rating falls below investment grade, we would be in violation of the provisions, and counterparties to the derivatives could request immediate payment or demand full overnight collateralization on derivatives instruments in net liability positions. The aggregate fair value of all derivatives with credit contingent features and in a liability position as of March 31, 2019 totaled approximately \$1.7 billion, against which we provided \$1.0 billion of collateral in the normal course of business. If our credit related contingent features underlying these agreements were triggered as of March 31, 2019, the maximum additional collateral we would be required to post to our counterparties is approximately \$0.7 billion.

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Note 8. Offsetting Arrangements

For additional information on our offsetting arrangements, refer to page 157 in Note 11 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

As of March 31, 2019 and December 31, 2018, the value of securities received as collateral from third parties where we are permitted to transfer or re-pledge

the securities totaled \$11.74 billion and \$11.69 billion, respectively, and the fair value of the portion that had been transferred or re-pledged as of the same dates was \$7.99 billion and \$5.31 million, respectively.

The following tables present information about the offsetting of assets related to derivative contracts and secured financing transactions, as of the dates indicated:

Assets:	March 31, 2019				
	Gross Amounts of Recognized Assets ⁽¹⁾⁽²⁾	Gross Amounts Offset in Statement of Condition ⁽³⁾	Net Amounts of Assets Presented in Statement of Condition	Cash and Securities Received ⁽⁴⁾	Gross Amounts Not Offset in Statement of Condition Net Amount ⁽⁵⁾
(In millions)					
Derivatives:					
Foreign exchange contracts	\$ 11,144	\$ (6,327)	\$ 4,817	\$—	\$ 4,817
Cash collateral and securities netting	NA	(639)	(639)	(468)	(1,107)
Total derivatives	11,144	(6,966)	4,178	(468)	3,710
Other financial instruments:					
Resale agreements and securities borrowing ⁽⁶⁾	103,293	(77,842)	25,451	(24,487)	964
Total derivatives and other financial instruments	\$ 114,437	\$ (84,808)	\$ 29,629	\$ (24,955)	\$ 4,674

Assets:	December 31, 2018				
	Gross Amounts of Recognized Assets ⁽¹⁾⁽²⁾	Gross Amounts Offset in Statement of Condition ⁽³⁾	Net Amounts of Assets Presented in Statement of Condition	Cash and Securities Received ⁽⁴⁾	Gross Amounts Not Offset in Statement of Condition Net Amount ⁽⁵⁾
(In millions)					
Derivatives:					
Foreign exchange contracts	\$ 16,386	\$ (10,223)	\$ 6,163	\$—	\$ 6,163
Interest rate contracts ⁽⁷⁾	13	—	13	—	13
Cash collateral and securities netting	NA	(987)	(987)	(220)	(1,207)
Total derivatives	16,399	(11,210)	5,189	(220)	4,969
Other financial instruments:					
Resale agreements and securities borrowing ⁽⁶⁾	116,143	(91,889)	24,254	(22,872)	1,382
Total derivatives and other financial instruments	\$ 132,542	\$ (103,099)	\$ 29,443	\$ (23,092)	\$ 6,351

(1) Amounts include all transactions regardless of whether or not they are subject to an enforceable netting arrangement.

(2) Refer to Note 1 and Note 2 for additional information about the measurement basis of derivative instruments.

(3) Amounts subject to netting arrangements which have been determined to be legally enforceable and eligible for netting in the consolidated statement of condition.

(4) Includes securities in connection with our securities borrowing transactions.

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⁽⁵⁾ Includes amounts secured by collateral not determined to be subject to enforceable netting arrangements.

⁽⁶⁾ Included in the \$25.45 billion as of March 31, 2019 were \$1.52 billion of resale agreements and \$23.93 billion of collateral provided related to securities borrowing. Included in the \$24.25 billion as of December 31, 2018 were \$4.68 billion of resale agreements and \$19.58 billion of collateral provided related to securities borrowing. Resale agreements and collateral provided related to securities borrowing were recorded in securities purchased under resale agreements and other assets, respectively, in our consolidated statement of condition. Refer to Note 9 for additional information with respect to principal securities finance transactions.

⁽⁷⁾ Variation margin payments presented as settlements rather than collateral.

NA Not applicable

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The following tables present information about the offsetting of liabilities related to derivative contracts and secured financing transactions, as of the dates indicated:

Liabilities:		March 31, 2019				
(In millions)	Gross Amounts of Recognized Liabilities ⁽¹⁾	Gross Amounts Offset in Statement of Condition ⁽³⁾	Net Amounts of Liabilities Presented in Statement of Condition	Gross Amounts Not Offset in Statement of Condition	Cash and Securities Received ⁽⁴⁾	Net Amount ⁽⁵⁾
Derivatives:						
Foreign exchange contracts	\$ 11,300	\$ (6,327)	\$ 4,973	\$—		\$ 4,973
Interest rate contracts ⁽⁶⁾	69	—	69	—		69
Other derivative contracts	228	—	228	—		228
Cash collateral and securities netting	NA	(1,192)	(1,192)	(633)		(1,825)
Total derivatives	11,597	(7,519)	4,078	(633)		3,445
Other financial instruments:						
Repurchase agreements and securities lending ⁽⁷⁾	93,272	(77,842)	15,430	(14,103)		1,327
Total derivatives and other financial instruments	\$ 104,869	\$ (85,361)	\$ 19,508	\$ (14,736)		\$ 4,772
Liabilities:		December 31, 2018				
(In millions)	Gross Amounts of Recognized Liabilities ⁽¹⁾	Gross Amounts Offset in Statement of Condition ⁽³⁾	Net Amounts of Liabilities Presented in Statement of Condition	Gross Amounts Not Offset in Statement of Condition	Cash and Securities Received ⁽⁴⁾	Net Amount ⁽⁵⁾
Derivatives:						
Foreign exchange contracts	\$ 16,522	\$ (10,223)	\$ 6,299	\$—		\$ 6,299
Interest rate contracts ⁽⁶⁾	71	—	71	—		71
Other derivative contracts	214	—	214	—		214
Cash collateral and securities netting	NA	(1,341)	(1,341)	(215)		(1,556)
Total derivatives	16,807	(11,564)	5,243	(215)		5,028
Other financial instruments:						
Repurchase agreements and securities lending ⁽⁷⁾	104,494	(91,889)	12,605	(11,543)		1,062
Total derivatives and other financial instruments	\$ 121,301	\$ (103,453)	\$ 17,848	\$ (11,758)		\$ 6,090

(1) Amounts include all transactions regardless of whether or not they are subject to an enforceable netting arrangement.

(2) Refer to Note 1 and Note 2 for additional information about the measurement basis of derivative instruments.

(3) Amounts subject to netting arrangements which have been determined to be legally enforceable and eligible for netting in the consolidated statement of condition.

(4) Includes securities provided in connection with our securities lending transactions.

(5) Includes amounts secured by collateral not determined to be subject to enforceable netting arrangements.

(6) Variation margin payments presented as settlements rather than collateral.

(7) Included in the \$15.43 billion as of March 31, 2019 were \$1.42 billion of repurchase agreements and \$14.01 billion of collateral received related to securities lending transactions. Included in the \$12.60 billion as of December 31, 2018 were \$1.08 billion of repurchase agreements and \$11.52 billion of collateral received related to securities lending transactions. Repurchase agreements and collateral received related to securities lending were recorded in securities sold under repurchase agreements and accrued expenses and other liabilities, respectively, in our consolidated

statement of condition. Refer to Note 9 for additional information with respect to principal securities finance transactions.

^{NA} Not applicable

The securities transferred under resale and repurchase agreements typically are U.S. Treasury, agency and agency MBS. In our principal securities borrowing and lending arrangements, the securities transferred are predominantly equity securities and some corporate debt securities. The fair value of the securities transferred may increase in value to an amount greater than the amount received under our

repurchase and securities lending arrangements, which exposes us to counterparty risk. We require the review of the price of the underlying securities in relation to the carrying value of the repurchase agreements and securities lending arrangements on a daily basis and when appropriate, adjust the cash or security to be obtained or returned to counterparties that is reflective of the required collateral levels.

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The following table summarizes our repurchase agreements and securities lending transactions by category of collateral pledged and remaining maturity of these agreements as of the periods indicated:

(In millions)	As of March 31, 2019			As of December 31, 2018		
	Overnight and Continuo	Up to 30 Days	Total	Overnight and Continuo	Up to 30 Days	Total
Repurchase agreements:						
U.S. Treasury and agency securities	\$74,346	\$—	\$74,346	\$88,904	\$—	\$88,904
Total	74,346	—	74,346	88,904	—	88,904
Securities lending transactions:						
US Treasury and agency securities	136	—	136	249	—	249
Corporate debt securities	433	—	433	278	—	278
Equity securities	9,733	124	9,857	6,426	137	6,563
Other ⁽¹⁾	8,500	—	8,500	8,500	—	8,500
Total	18,802	124	18,926	15,453	137	15,590
Gross amount of recognized liabilities for repurchase agreements and securities lending	\$93,148	\$124	\$93,272	\$104,357	\$137	\$104,494

⁽¹⁾ Represents a security interest in underlying client assets related to our enhanced custody business, which assets clients have allowed us to transfer and re-pledge.

Note 9. Commitments and Guarantees

For additional information on our commitments and guarantees, refer to page 160 in Note 12 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following table presents the aggregate gross contractual amounts of our off-balance sheet commitments and off-balance sheet guarantees as of the dates indicated:

(In millions)	March 31, 2019	December 31, 2018
Commitments:		
Unfunded credit facilities ⁽¹⁾	\$29,951	\$28,951
Guarantees⁽²⁾:		
Indemnified securities financing	\$387,314	\$342,337
Standby letters of credit	2,973	2,985

⁽¹⁾ As of March 31, 2019, approximately 75% of our unfunded commitments to extend credit expire within one year.

⁽²⁾ The potential losses associated with these guarantees equal the gross contractual amounts and do not consider the value of any collateral or reflect any participations to independent third parties.

Indemnified Securities Financing

For additional information on our Indemnified Securities Financing, refer to page 160 in Note 12 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following table summarizes the aggregate fair values of indemnified securities financing and related collateral, as well as collateral invested in indemnified repurchase agreements, as of the dates indicated:

(In millions)	March 31, 2019	December 31, 2018
Fair value of indemnified securities financing	\$387,314	\$342,337
Fair value of cash and securities held by us, as agent, as collateral for indemnified securities financing	405,299	357,893
Fair value of collateral for indemnified securities financing invested in indemnified repurchase agreements	47,560	42,610
Fair value of cash and securities held by us or our agents as collateral for investments in indemnified repurchase agreements	50,351	45,064

In certain cases, we participate in securities finance transactions as a principal. As a principal, we borrow securities from the lending client and then lend such securities to the subsequent borrower, either our client or a broker/dealer. Our right to receive and obligation to return collateral in connection with our securities lending transactions are recorded in other assets and other liabilities, respectively, in our consolidated statement of condition. As of March 31, 2019 and December 31, 2018, we had approximately \$23.93 billion and \$19.58 billion, respectively, of collateral provided and approximately \$14.01 billion and \$11.52 billion, respectively, of collateral received from clients in connection with our participation in principal securities finance transactions.

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Note 10. Contingencies

Legal and Regulatory Matters

In the ordinary course of business, we and our subsidiaries are involved in disputes, litigation, and governmental or regulatory inquiries and investigations, both pending and threatened. These matters, if resolved adversely against us or settled, may result in monetary awards or payments, fines and penalties or require changes in our business practices. The resolution or settlement of these matters is inherently difficult to predict. Based on our assessment of these pending matters, we do not believe that the amount of any judgment, settlement or other action arising from any pending matter is likely to have a material adverse effect on our consolidated financial condition. However, an adverse outcome or development in certain of the matters described below could have a material adverse effect on our consolidated results of operations for the period in which such matter is resolved, or an accrual is determined to be required, on our consolidated financial condition, or on our reputation.

We evaluate our needs for accruals of loss contingencies related to legal and regulatory proceedings on a case-by-case basis. When we have a liability that we deem probable, and we deem the amount of such liability can be reasonably estimated as of the date of our consolidated financial statements, we accrue our estimate of the amount of loss. We also consider a loss probable and establish an accrual when we make, or intend to make, an offer of settlement. Once established, an accrual is subject to subsequent adjustment as a result of additional information. The resolution of legal and regulatory proceedings and the amount of reasonably estimable loss (or range thereof) are inherently difficult to predict, especially in the early stages of proceedings. Even if a loss is probable, an amount (or range) of loss might not be reasonably estimated until the later stages of the proceeding due to many factors such as the presence of complex or novel legal theories, the discretion of governmental authorities in seeking sanctions or negotiating resolutions in civil and criminal matters, the pace and timing of discovery and other assessments of facts and the procedural posture of the matter (collectively, "factors influencing reasonable estimates").

As of March 31, 2019, our aggregate accruals for loss contingencies for legal and regulatory matters totaled approximately \$53 million. To the extent that we have established accruals in our consolidated statement of condition for probable loss contingencies, such accruals may not be sufficient to cover our ultimate financial exposure associated with any settlements or judgments. Any such ultimate financial exposure, or proceedings to which we may become subject in the future, could have a material adverse effect on our

businesses, on our future consolidated financial statements or on our reputation.

As of March 31, 2019, for those matters for which we have accrued probable loss contingencies (including the Invoicing Matter described below) and for other matters for which loss is reasonably possible (but not probable) in future periods, and for which we are able to estimate a range of reasonably possible loss, our estimate of the aggregate reasonably possible loss (in excess of any accrued amounts) ranges up to approximately \$300 million. Our estimate with respect to the aggregate reasonably possible loss is based upon currently available information and is subject to significant judgment and a variety of assumptions and known and unknown uncertainties, which may change quickly and significantly from time to time, particularly if and as we engage with applicable governmental agencies or plaintiffs in connection with a proceeding. Also, the matters underlying the reasonably possible loss will change from time to time. As a result, actual results may vary significantly from the current estimate.

In certain pending matters, it is not currently feasible to reasonably estimate the amount or a range of reasonably possible loss, and such losses, which may be significant, are not included in the estimate of reasonably possible loss discussed above. This is due to, among other factors, the factors influencing reasonable estimates described above. An adverse outcome in one or more of the matters for which we have not estimated the amount or a range of reasonably possible loss, individually or in the aggregate,

could have a material adverse effect on our businesses, on our future consolidated financial statements or on our reputation. Given that our actual losses from any legal or regulatory proceeding for which we have provided an estimate of the reasonably possible loss could significantly exceed such estimate, and given that we cannot estimate reasonably possible loss for all legal and regulatory proceedings as to which we may be subject now or in the future, no conclusion as to our ultimate exposure from current pending or potential legal or regulatory proceedings should be drawn from the current estimate of reasonably possible loss.

The following discussion provides information with respect to significant legal, governmental and regulatory matters.

Invoicing Matter

In 2015, we determined that we had incorrectly invoiced clients for certain expenses. We have reimbursed most of our affected customers for those expenses, and we have implemented enhancements to our billing processes. In connection with our enhancements to our billing processes, we continue to review historical billing practices and may from time to time identify additional remediation. In 2017, we identified an additional area of incorrect expense billing

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associated with mailing services in our retirement services business. The accrual for loss contingencies as of March 31, 2019 included an estimate of the amount we anticipate reimbursing clients due to that error. We currently expect the cumulative total of our payments to customers for these invoicing errors, including the error in the retirement services business, to be at least \$380 million, all of which has been paid or is accrued. However, we may identify additional remediation costs.

In March 2017, a purported class action was commenced against us alleging that our invoicing practices violated duties owed to retirement plan customers under the Employee Retirement Income Security Act. In addition, we have received a purported class action demand letter alleging that our invoicing practices were unfair and deceptive under Massachusetts law. A class of customers, or particular customers, may assert that we have not paid to them all amounts incorrectly invoiced, and may seek double or treble damages under Massachusetts law.

We are also cooperating with investigations by governmental and regulatory authorities on these matters, including the civil and criminal divisions of the DOJ, the SEC, the Department of Labor and the Massachusetts Attorney General, which could result in significant fines or other sanctions, civil and criminal, against us. If these governmental or regulatory authorities were to conclude that all or a portion of the billing errors merited civil or criminal sanctions, any fine or other penalty could be a significant percentage, or a multiple of, the portion of the overcharging serving as the basis of such a claim or of the full amount overcharged. The governmental and regulatory authorities have significant discretion in civil and criminal matters as to the fines and other penalties they may seek to impose. The severity of such fines or other penalties could take into account factors such as the amount and duration of our incorrect invoicing, the government's or regulator's assessment of the conduct of our employees, as well as prior conduct such as that which resulted in our January 2017 deferred prosecution agreement in connection with transition management services and our settlement of civil claims regarding our indirect FX business. The staff of the SEC has informed us that it intends to ask the SEC for permission to bring an action against us asserting that we overcharged clients that are registered investment companies for custody expenses in violation of §§ 31(a), 34(b) and 37 of the Investment Company Act of 1940, and Rules 31a-1(a) and 31a-1(b) thereunder. The Massachusetts Attorney General's office has also asserted a claim under state law. We have reached an agreement in principle with respect to the approximate financial terms of a settlement with each of the SEC and the Massachusetts Attorney General to resolve such claims and, at March 31, 2019, our aggregate accruals for loss contingencies for legal matters include the

amount of penalties reflected in such proposed settlements. There can be no assurance that any settlement, whether with the SEC or other governmental authorities, will be reached or, if so, the amount of the settlement or its impact on other claims relating to these matters. It is likely that discussions will commence in 2019 with the DOJ regarding a potential resolution of their investigation regarding this matter, which will then enable us to better assess the potential penalties and/or other sanctions they will be seeking. The aggregate amount of penalties that may potentially be imposed upon us in connection with the resolution of all outstanding investigations into our historical billing practices could be significant multiples of the potential penalties as to which we have reached an agreement in principle with the staff of the SEC.

The outcome of any of these proceedings and, in particular, any criminal sanction could materially adversely affect our results of operations and could have significant collateral consequences for our business and reputation.

Federal Reserve/Massachusetts Division of Banks Written Agreement

On June 1, 2015, we entered into a written agreement with the Federal Reserve and the Massachusetts Division of Banks relating to deficiencies identified in our compliance programs with the requirements of the Bank Secrecy Act, Anti-Money Laundering regulations and U.S. economic sanctions regulations

promulgated by the Office of Foreign Assets Control. As part of this enforcement action, we have been required to, among other things, implement improvements to our compliance programs. If we fail to comply with the terms of the written agreement, we may become subject to fines and other regulatory sanctions, which may have a material adverse effect on us.

Shareholder Litigation

A shareholder of ours has filed a purported class action complaint against us alleging that our financial statements in our annual reports for the 2011-2014 period were misleading due to the inclusion of revenues associated with the invoicing matter referenced above and the facts surrounding our 2017 settlements with the U.S. government relating to our transition management business. The Court approved a class settlement in this matter for \$4.9 million in April 2019.

Income Taxes

In determining our provision for income taxes, we make certain judgments and interpretations with respect to tax laws in jurisdictions in which we have business operations. Because of the complex nature of these laws, in the normal course of our business, we are subject to challenges from U.S. and non-U.S. income tax authorities regarding the amount of income taxes due. These challenges may result in adjustments to the timing or amount of taxable income or deductions

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or the allocation of taxable income among tax jurisdictions. We recognize a tax benefit when it is more likely than not that our position will result in a tax deduction or credit. Unrecognized tax benefits of approximately \$103 million as of March 31, 2019 decreased from \$108 million as of December 31, 2018.

We are presently under audit by a number of tax authorities, and the Internal Revenue Service is currently reviewing our U.S. income tax returns for the tax years 2014 and 2015. The earliest tax year open to examination in jurisdictions where we have material operations is 2012. Management believes that we have sufficiently accrued liabilities as of March 31, 2019 for potential tax exposures.

Note 11. Variable Interest Entities

For additional information on our VIEs, refer to pages 163 to 164 in Note 14 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, "Variable Interest Entities", in our 2018 Form 10-K.

Tax Exempt Investment Program

In the normal course of our business, we structure and sell certificated interests in pools of tax exempt investment grade assets, principally to our mutual fund clients. We structure these pools as partnership trusts, and the assets and liabilities of the trusts are recorded in our consolidated statement of condition as AFS investment securities and other short term borrowings. As of March 31, 2019 and December 31, 2018, we carried AFS investment securities, composed of securities related to state and political subdivisions, with a fair value of \$1.06 billion and \$1.05 billion, respectively, and other short term borrowings of \$0.93 billion in both periods, in our consolidated statement of condition in connection with these trusts. The interest income and interest expense generated by the investments and certificated interests, respectively, are recorded as components of NII when earned or incurred.

The trusts had a weighted average life of approximately 3.4 years and 3.6 years as of March 31, 2019 and December 31, 2018, respectively.

Interests in Investment Funds

As of March 31, 2019 and December 31, 2018, we did not have any consolidated investment funds. We managed certain funds, considered VIEs, in which we held a variable interest but for which we were not deemed to be the primary beneficiary. Our potential maximum loss exposure related to these unconsolidated funds totaled \$37 million as of March 31, 2019 and \$70 million as of December 31, 2018, and represented the carrying value of our investments, which are recorded in either AFS investment securities or other assets in our consolidated statement of condition. The amount of loss we may recognize during any period is limited to the carrying amount of our investments in the unconsolidated funds.

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Note 12. Shareholders' Equity

Preferred Stock

The following table summarizes selected terms of each of the series of the preferred stock issued and outstanding as of March 31, 2019:

Issuance Date	Depository Shares Issued	Ownership Interest	Per Depository Share	Liquidation Preference Per Share	Liquidation Preference Per Depository Share	Net Proceeds of Offering (In millions)	Redemption Date ⁽¹⁾
Preferred Stock⁽²⁾:							
Series C August 2012	20,000,000	1/4,000th		\$ 100,000	\$ 25	\$ 488	September 15, 2017
Series D February 2014	30,000,000	1/4,000th		100,000	25	742	March 15, 2024
Series E November 2014	30,000,000	1/4,000th		100,000	25	728	December 15, 2019
Series F May 2015	750,000	1/100th		100,000	1,000	742	September 15, 2020
Series G April 2016	20,000,000	1/4,000th		100,000	25	493	March 15, 2026
Series H September 2018	500,000	1/100th		100,000	1,000	494	December 15, 2023

⁽¹⁾ On the redemption date, or any dividend declaration date thereafter, the preferred stock and corresponding depository shares may be redeemed by us, in whole or in part, at the liquidation price per share and liquidation price per depository share plus any declared and unpaid dividends, without accumulation of any undeclared dividends.

⁽²⁾ The preferred stock and corresponding depository shares may be redeemed at our option in whole, but not in part, prior to the redemption date upon the occurrence of a regulatory capital treatment event, as defined in the certificate of designation, at a redemption price equal to the liquidation price per share and liquidation price per depository share plus any declared and unpaid dividends, without accumulation of any undeclared dividends.

The following table presents the dividends declared for each of the series of preferred stock issued and outstanding for the periods indicated:

(Dollars in millions, except per share amounts)	Three Months Ended March 31,					
	2019			2018		
	Dividends Declared per Share	Dividends Declared per Depository Share	Total ⁽¹⁾	Dividends Declared per Share	Dividends Declared per Depository Share	Total
Preferred Stock:						
Series C	\$ 1,313	\$ 0.33	\$ 6	\$ 1,313	\$ 0.33	\$ 6
Series D	1,475	0.37	11	1,475	0.37	11
Series E	1,500	0.38	11	1,500	0.38	11
Series F	2,625	26.25	20	2,625	26.25	20
Series G	1,338	0.33	7	1,338	0.33	7
Series H	—	—	—	—	—	—
Total			\$ 55			\$ 55

⁽¹⁾ Dividends were paid in March 2019

Common Stock

We repurchased \$300 million of our common stock in the first quarter of 2019 and may repurchase up to \$300 million of our common stock in the second quarter of 2019 under the 2018 Program.

The table below presents the activity under our common stock purchase program during the period

indicated:

	Three Months Ended	
	March 31, 2019	
	Average	Total
	Shares	Shares
	Acquired	Acquired
	(In per	(In
	million)	million)
2018 Program	4.2	\$ 300
	\$ 70.93	

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The table below presents the dividends declared on common stock for the periods indicated:

	Three Months Ended March 31,			
	2019		2018	
	Dividends Declared per Share	Total (In millions)	Dividends Declared per Share	Total (In millions)
Common Stock	\$0.47	\$ 177	\$0.42	\$ 154

Accumulated Other Comprehensive Income (Loss)

The following table presents the after-tax components of AOCI as of the dates indicated:

(In millions)	March 31, 2019	December 31, 2018
Net unrealized (losses) on cash flow hedges	\$(71)	\$(89)
Net unrealized gains (losses) on available-for-sale securities portfolio	114	(193)
Net unrealized gains related to reclassified available-for-sale securities	58	58
Net unrealized gains (losses) on available-for-sale securities	172	(135)
Net unrealized (losses) on available-for-sale securities designated in fair value hedges	(56)	(40)
Net unrealized gains on hedges of net investments in non-U.S. subsidiaries	36	16
Other-than-temporary impairment on held-to-maturity securities related to factors other than credit	(3)	(2)
Net unrealized (losses) on retirement plans	(179)	(143)
Foreign currency translation	(1,079)	(963)
Total	\$(1,180)	\$(1,356)

The following table presents changes in AOCI by component, net of related taxes, for the periods indicated:

	Three Months Ended March 31, 2019							
(In millions)	Net Unrealized Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Net Unrealized Gains (Losses) on Hedges of Net Investments in Non-U.S. Subsidiaries	Other-Than-Temporary Impairment on Held-to-Maturity Securities	Net Unrealized Losses on Retirement Plans	Foreign Currency Translation	Total	
Balance as of December 31, 2018	\$(89)	\$(175)	\$ 16	\$(2)	\$(143)	\$(963)	\$(1,356)	
Other comprehensive income (loss) before reclassifications	24	270	23	1	—	(49)	269	
Reclassification of certain tax effects ⁽¹⁾	(6)	21	(3)	(1)	(28)	(67)	(84)	
Amounts reclassified into (out of) earnings	—	—	—	(1)	(8)	—	(9)	
Other comprehensive income (loss)	18	291	20	(1)	(36)	(116)	176	
Balance as of March 31, 2019	\$(71)	\$ 116	\$ 36	\$(3)	\$(179)	\$(1,079)	\$(1,180)	

	Three Months Ended March 31, 2018							
(In millions)	Net Unrealized Gains (Losses) on Cash Flow Hedges	Net Unrealized Gains (Losses) on Available-for-Sale Securities	Net Unrealized Gains (Losses) on Hedges of Net Investments in Non-U.S. Subsidiaries	Other-Than-Temporary Impairment on Held-to-Maturity Securities	Net Unrealized Losses on Retirement Plans	Foreign Currency Translation	Total	
Balance as of December 31, 2017	\$(56)	\$ 103	\$(65)	\$(6)	\$(170)	\$(815)	\$(1,009)	

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Other comprehensive income (loss) before reclassifications	(97)	(130)	(36)	1)	—	187	(75)
Amounts reclassified into (out of) earnings	—	(1)	—	(1)	12	—	10
Other comprehensive income (loss)	(97)	(131)	(36)	—	12	187	(65)
Balance as of March 31, 2018	\$(153)	\$ (28)	\$ (101)	\$ (6)	\$ (158)	\$ (628)	\$(1,074)

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The following table presents after-tax reclassifications into earnings for the periods indicated:

(In millions)	Three Months Ended March 31, 2019 2018		Affected Line Item in Consolidated Statement of Income
	Amounts Reclassified into (out of) Earnings		
Available-for-sale securities:			
Net realized gains (losses) from sales of available-for-sale securities, net of related taxes of zero and (\$1), respectively	\$ —	\$ (1)	Net gains (losses) from sales of available-for-sale securities
Held-to-maturity securities:			
Other-than-temporary impairment on held-to-maturity securities related to factors other than credit, net of related taxes of zero and zero, respectively	(1)	(1)	Losses reclassified (from) to other comprehensive income
Retirement plans:			
Amortization of actuarial losses, net of related taxes of (\$4) and \$3, respectively	(8)	12	Compensation and employee benefits expenses
Total reclassifications out of Accumulated other comprehensive loss	\$ (9)	\$ 10	

Note 13. Regulatory Capital

For additional information on our regulatory capital, including the regulatory capital requirements administered by federal banking agencies, and to which we are subject, refer to page 167 in Note 16 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

As of March 31, 2019, we and State Street Bank exceeded all regulatory capital adequacy requirements to which we were subject. As of March 31, 2019, State Street Bank was categorized as “well capitalized” under the applicable regulatory capital adequacy framework, and exceeded all “well capitalized” ratio guidelines to

which it was subject. Management believes that no conditions or events have occurred since March 31, 2019 that have changed the capital categorization of State Street Bank.

The following table presents the regulatory capital structure, total RWA, related regulatory capital ratios and the minimum required regulatory capital ratios for us and State Street Bank as of the dates indicated. As a result of changes in the methodologies used to calculate our regulatory capital ratios from period to period as the provisions of the Basel III final rule were phased in, the ratios presented in the table for each period-end are not directly comparable. Refer to the footnotes following the table.

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(Dollars in millions)	State Street				State Street Bank						
	Basel III Advanced Approaches March 31, 2019	Basel III Standardized Approach March 31, 2019	Basel III Advanced Approaches December 31, 2018(1)	Basel III Standardized Approach December 31, 2018(1)	Basel III Advanced Approaches March 31, 2019	Basel III Standardized Approach March 31, 2019	Basel III Advanced Approaches December 31, 2018(1)	Basel III Standardized Approach December 31, 2018(1)			
Common shareholders' equity:											
Common stock and related surplus	\$ 10,586	\$ 10,586	\$ 10,565	\$ 10,565	\$ 12,894	\$ 12,894	\$ 12,894	\$ 12,894			
Retained earnings	20,911	20,911	20,606	20,606	14,273	14,273	14,261	14,261			
Accumulated other comprehensive income (loss)	(1,168)	(1,168)	(1,332)	(1,332)	(954)	(954)	(1,112)	(1,112)			
Treasury stock, at cost	(8,969)	(8,969)	(8,715)	(8,715)	—	—	—	—			
Total	21,360	21,360	21,124	21,124	26,213	26,213	26,043	26,043			
Regulatory capital adjustments:											
Goodwill and other intangible assets, net of associated deferred tax liabilities	(9,294)	(9,294)	(9,350)	(9,350)	(9,016)	(9,016)	(9,073)	(9,073)			
Other adjustments ⁽²⁾	(167)	(167)	(194)	(194)	(1)	(1)	(29)	(29)			
Common equity tier 1 capital	11,899	11,899	11,580	11,580	17,196	17,196	16,941	16,941			
Preferred stock	3,690	3,690	3,690	3,690	—	—	—	—			
Tier 1 capital	15,589	15,589	15,270	15,270	17,196	17,196	16,941	16,941			
Qualifying subordinated long-term debt	787	787	778	778	785	785	776	776			
Allowance for loan and lease losses and other	10	84	14	83	6	83	11	83			
Total capital	\$ 16,386	\$ 16,460	\$ 16,062	\$ 16,131	\$ 17,987	\$ 18,064	\$ 17,728	\$ 17,800			
Risk-weighted assets:											
Credit risk ⁽³⁾	\$ 49,451	\$ 102,284	\$ 47,738	\$ 97,303	\$ 47,106	\$ 99,673	\$ 45,565	\$ 94,776			
Operational risk ⁽⁴⁾	47,213	NA	46,060	NA	44,416	NA	44,494	NA			
Market risk	1,359	1,359	1,517	1,517	1,359	1,359	1,517	1,517			
Total risk-weighted assets	\$ 98,023	\$ 103,643	\$ 95,315	\$ 98,820	\$ 92,881	\$ 101,032	\$ 91,576	\$ 96,293			
Adjusted quarterly average assets	\$ 210,099	\$ 210,099	\$ 211,924	\$ 211,924	\$ 207,417	\$ 207,417	\$ 209,413	\$ 209,413			
Capital Ratios:											
Common equity tier 1 capital	8.5	% 7.5	% 12.1	% 11.5	% 12.1	% 11.7	% 18.5	% 17.0	% 18.5	% 17.6	%
Tier 1 capital	10.0	9.0	15.9	15.0	16.0	15.5	18.5	17.0	18.5	17.6	
Total capital	12.0	11.0	16.7	15.9	16.9	16.3	19.4	17.9	19.4	18.5	

(1) Under the applicable bank regulatory rules, we are not required to and, accordingly, did not revise previously-filed reported capital metrics and ratios following the change in accounting for LIHTC.

(2) Other adjustments within CET1 primarily include the overfunded portion of the firm's defined benefit pension plan obligation net of associated deferred tax liabilities, disallowed deferred tax assets, and other required credit risk based deductions.

(3) Includes a CVA which reflects the risk of potential fair value adjustments for credit risk reflected in our valuation of OTC derivative contracts. We used a simple CVA approach in conformity with the Basel III advanced approaches.

(4) Under the current advanced approaches rules and regulatory guidance concerning operational risk models, RWA attributable to operational risk can vary substantially from period-to-period, without direct correlation to the effects of a particular loss event on our results of operations and financial condition and impacting dates and periods that may differ from the dates and periods as of and during which the loss event is reflected in our financial statements, with the timing and categorization dependent on the processes for model updates and, if applicable, model revalidation and regulatory review and related supervisory processes. An individual loss event can have a significant effect on the output of our operational RWA under the advanced approaches depending on the severity of the loss event and its categorization among the seven Basel-defined UOMs.

(5) Minimum requirements were phased in with full implementation beginning on January 1, 2019; minimum requirements listed are as of March 31, 2019.

(6) Minimum requirements were phased in with full implementation beginning on January 1, 2019; minimum requirements listed are as of December 31, 2018.

NA
Not applicable

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Note 14. Net Interest Income

The following table presents the components of interest income and interest expense, and related NII, for the periods indicated:

(In millions)	Three Months Ended March 31,	
	2019	2018 ⁽¹⁾
Interest income:		
Interest-bearing deposits with banks	\$ 119	\$ 82
Investment securities:		
U.S. Treasury and federal agencies	369	255
State and political subdivisions	12	52
Other investments	122	159
Securities purchased under resale agreements	98	77
Loans and leases	198	155
Other interest-earning assets	109	77
Total interest income	1,027	857
Interest expense:		
Interest-bearing deposits	171	63
Securities sold under repurchase agreements	12	—
Other short-term borrowings	4	3
Long-term debt	106	97
Other interest-bearing liabilities	61	51
Total interest expense	354	214
Net interest income	\$ 673	\$ 643

⁽¹⁾In the first quarter of 2018, approximately \$15 million of swap costs were reclassified from processing fees and other revenue within fee revenue to net interest income to conform to current presentation.

Note 15. Expenses

The following table presents the components of other expenses for the periods indicated:

(In millions)	Three Months Ended March 31,	
	2019	2018
Professional services	\$ 80	\$ 79
Sales advertising public relations	27	26
Insurance	22	32
Regulatory fees and assessments	18	27
Bank operations	11	17
Other	117	99
Total other expenses	\$ 275	\$ 280

Acquisition Costs

We recorded \$13 million of acquisition costs in the first quarter of 2019 primarily related to our acquisition of CRD. As we integrate CRD into our business, we expect to incur approximately \$200 million of acquisition costs, including merger and integration costs, through 2021.

Restructuring and Repositioning Charges*Repositioning Charges*

In 2018, we initiated a new expense program to accelerate efforts to become a higher-performing organization and help navigate challenging market and industry conditions.

Beacon

In the first quarter of 2019, we released \$4 million of restructuring accruals related to Beacon. We recorded no restructuring charges in the same period in 2018.

The following table presents aggregate activity for the periods indicated:

(In millions)	Employee Related Costs	Real Estate Actions	Asset and Other Write-offs	Total
Accrual balance at December 31, 2017	\$ 166	\$ 32	\$ 3	\$201
Accruals for Beacon	—	—	—	—
Payments and other adjustments	(22)	(4)	—	(26)
Accrual balance at March 31, 2018	\$ 144	\$ 28	\$ 3	\$175
Accrual balance at December 31, 2018	\$ 303	\$ 37	\$ 1	341
Accruals for Beacon	(4)	—	—	(4)
Payments and other adjustments	(53)	(25)	—	(78)
Accrual balance at March 31, 2019	\$ 246	\$ 12	\$ 1	\$259

Note 16. Occupancy Expense and Information Systems and Communications Expense

Upon adoption of Topic 842 on January 1, 2019, we recognized right-of-use assets of approximately \$0.91 billion and lease liabilities of approximately \$1.06 billion.

Occupancy expense and information systems and communications expense include depreciation of buildings, leasehold improvements, computer hardware and software, equipment, furniture and fixtures, and amortization of lease right-of-use assets. Total depreciation and amortization was \$205 million in the first quarter of 2019.

We use our incremental borrowing rate to determine the present value of the lease payments for finance and operating leases described below. Additionally, we do not separate nonlease components such as real estate taxes and common area maintenance from base lease payments.

As of March 31, 2019, an aggregate net book value of \$94 million for the finance lease related to our One Lincoln Street Boston headquarters is recorded in premises and equipment, with the related lease liability of \$160 million recorded in long-term debt, in our consolidated statement of condition.

Finance lease right-of-use asset amortization is recorded in occupancy expense on a straight-line basis in our consolidated statement of income over the

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respective lease term. Lease payments are recorded as a reduction of the liability, with a portion recorded as imputed interest expense. In the quarter ended March 31, 2019, interest expense related to the finance lease obligation reflected in NII was \$3 million. As of March 31, 2019, accumulated amortization of the finance lease right-of-use asset was \$40 million.

Operating lease right-of-use assets with an aggregate net book value of \$899 million are recorded in other assets, with the related lease liability of \$1.06 billion recorded in accrued expenses and other liabilities in our consolidated statement of condition.

We have entered into non-cancellable operating leases for premises and equipment. Nearly all of these leases include renewal options, and only those reasonably certain of being exercised are included in the term of the lease. Costs for operating leases are recorded on a straight-line basis which includes both interest expense and right-of-use asset amortization. Operating lease costs for office space are recorded in occupancy expense. Costs related to operating leases for equipment are recorded in information systems and communications expense.

As of March 31, 2019, we have additional operating leases, primarily for office space, that have not yet commenced of approximately \$497 million of undiscounted future minimum lease payments. These leases will commence between fiscal year 2019 and fiscal year 2023 with lease terms of 11 to 15 years. The majority of these future payments relate to the new Boston headquarters lease executed in the first quarter of 2019, replacing the One Lincoln Street Boston property.

None of our leases contain residual value guarantees.

The following table presents lease costs, sublease rental income, cash flows and new leases arising from lease transactions for the quarter ended March 31, 2019:

(In millions)	Three Months Ended March 31, 2019
Finance lease:	
Amortization of right-of-use assets	\$ 5
Interest on lease liabilities	3
Total finance lease expense	8
Sublease income	(2)
Net finance lease expense	6
Operating lease:	
Operating lease expense	44
Sublease income	(1)
Net operating lease expense	43
Net lease expense	\$ 49
Cash paid for amounts included in the measurement of lease liabilities:	
Operating cash flows from finance leases	\$ 3
Operating cash flows from operating leases	51
Financing cash flows from finance leases	31
Right-of-use assets obtained in exchange for new lease obligations:	
Operating leases	\$ 29
Finance leases	—

The following table presents future minimum lease payments under non-cancellable leases as of March 31, 2019:

(In millions)	Operating Leases	Finance Leases	Total
2019 (excluding the first quarter of 2019)	\$ 144	\$ 31	\$175
2020	185	42	227
2021	174	42	216
2022	151	42	193
2023	131	30	161
Thereafter	400	—	400
Total future minimum lease payments	1,185	187	1,372
Less imputed interest	(125)	(27)	(152)
Total	\$ 1,060	\$ 160	\$1,220

The following table presents details related to remaining lease terms and discount rate for the quarter ended March 31, 2019:

	Three Months Ended March 31, 2019
Weighted-average remaining lease term (in years):	
Finance leases	4.5
Operating leases	7.8
Weighted-average discount rate:	
Finance leases	7 %
Operating leases	3

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Note 17. Earnings Per Common Share

For additional information on our earnings per share calculation methodologies, refer to page 175 in Note 23 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following table presents the computation of basic and diluted earnings per common share for the periods indicated:

	Three Months Ended March 31,	
	2019	2018
(Dollars in millions, except per share amounts)		
Net income	\$508	\$ 659
Less:		
Preferred stock dividends	(55)	(55)
Dividends and undistributed earnings allocated to participating securities ⁽¹⁾	(1)	(1)
Net income available to common shareholders	\$452	\$ 603
Average common shares outstanding (In thousands):		
Basic average common shares	377,915	367,439
Effect of dilutive securities: equity-based awards	3,788	5,180
Diluted average common shares	381,703	372,619
Anti-dilutive securities ⁽²⁾	1,951	—
Earnings per common share:		
Basic	\$1.20	\$ 1.64
Diluted ⁽³⁾	1.18	1.62

⁽¹⁾ Represents the portion of net income available to common equity allocated to participating securities, composed of unvested and fully vested SERP (Supplemental executive retirement plans) shares and fully vested deferred director stock awards, which are equity-based awards that contain non-forfeitable rights to dividends, and are considered to participate with the common stock in undistributed earnings.

⁽²⁾ Represents equity-based awards outstanding but not included in the computation of diluted average common shares, because their effect was anti-dilutive. Additional information about equity-based awards is provided on pages 169 to 171 in Note 18 to the consolidated financial statements in our 2018 Form 10-K.

⁽³⁾ Calculations reflect allocation of earnings to participating securities using the two-class method, as this computation is more dilutive than the treasury stock method.

Note 18. Line of Business Information

Our operations are organized into two lines of business: Investment Servicing and Investment Management, which are defined based on products and services provided. The results of operations for these lines of business are not necessarily comparable with those of other companies, including companies in the financial services industry. For information about our two lines of business, as well as revenues, expenses and capital allocation methodologies associated with them, refer to pages 175 to 176 in Note 24 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

The following is a summary of our line of business results for the periods indicated. The "Other" columns represent costs incurred that are not allocated to a specific line of business, including certain severance and restructuring costs, acquisition costs and certain provisions for legal contingencies.

	Three Months Ended March 31,							
	Investment Servicing		Investment Management		Other		Total	
	2019	2018	2019	2018	2019	2018	2019	2018
(Dollars in millions)								
Servicing fees	\$1,251	\$ 1,421	\$—	\$—	\$—	\$—	—\$1,251	\$ 1,421

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Management fees	—	—	420	472	—	—	420	472
Foreign exchange trading services	246	274	34	30	—	—	280	304
Securities finance	117	141	1	—	—	—	118	141
Processing fees and other	180	77	11	—	—	—	191	77
Total fee revenue	1,794	1,913	466	502	—	—	2,260	2,415
Net interest income	679	648	(6)	(5)	—	—	673	643
Gains (losses) related to investment securities, net	(1)	(2)	—	—	—	—	(1)	(2)
Total revenue	2,472	2,559	460	497	—	—	2,932	3,056
Total expenses	1,864	1,870	406	398	23	—	2,293	2,268
Income before income tax expense	\$604	\$689	\$54	\$99	\$(23)	\$	—\$635	\$788
Pre-tax margin	24	% 27	% 12	% 20	%		22	% 26

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CONDENSED NOTES TO CONSOLIDATED FINANCIAL STATEMENTS
(UNAUDITED)

Note 19. Revenue from Contracts with Customers

For additional information on our revenue from contracts with customers, including revenues associated with both our Investment Servicing and Investment Management lines of business, refer to pages 177 to 178 in Note 25 to the consolidated financial statements included under Item 8, Financial Statements and Supplementary Data, in our 2018 Form 10-K.

Revenue by category

In the following table, revenue is disaggregated by our two lines of business and by revenue stream for which the nature, amount, timing and uncertainty of revenue and cash flows are affected by economic factors.

(Dollars in millions)	Three Months Ended March 31, 2019						Total 2019
	Investment Servicing			Investment Management			
	Topic 606 revenue	All other revenue	Total	Topic 606 revenue	All other revenue	Total	
Servicing fees	\$ 1,251	\$ —	\$ 1,251	\$ —	\$ —	\$ —	\$ 1,251
Management fees	—	—	—	420	—	420	420
Foreign exchange trading services	86	160	246	34	—	34	280
Securities finance	70	47	117	—	1	1	118
Processing fees and other	116	64	180	—	11	11	191
Total fee revenue	1,523	271	1,794	454	12	466	2,260
Net interest income	—	679	679	—	(6)	(6)	673
Gains (losses) related to investment securities, net	—	(1)	(1)	—	—	—	(1)
Total revenue	\$ 1,523	\$ 949	\$ 2,472	\$ 454	\$ 6	\$ 460	\$ 2,932

(Dollars in millions)	Three Months Ended March 31, 2018						Total 2018
	Investment Servicing			Investment Management			
	Topic 606 revenue	All other revenue	Total	Topic 606 revenue	All other revenue	Total	
Servicing fees	\$ 1,421	\$ —	\$ 1,421	\$ —	\$ —	\$ —	\$ 1,421
Management fees	—	—	—	472	—	472	472
Foreign exchange trading services	95	179	274	30	—	30	304
Securities finance	77	64	141	—	—	—	141
Processing fees and other ⁽¹⁾	19	58	77	—	—	—	77
Total fee revenue	1,612	301	1,913	502	—	502	2,415
Net interest income ⁽¹⁾	—	648	648	—	(5)	(5)	643
Gains (losses) related to investment securities, net	—	(2)	(2)	—	—	—	(2)
Total revenue	\$ 1,612	\$ 947	\$ 2,559	\$ 502	\$ (5)	\$ 497	\$ 3,056

¹⁾ In the first quarter of 2018, approximately \$15 million of swap costs were reclassified from processing fees and other revenue within fee revenue to net interest income to conform to current presentation.

Contract balances and contract costs

As of March 31, 2019 and December 31, 2018, net receivables of \$2.80 billion and \$2.75 billion, respectively, are included in accrued interest and fees receivable, representing amounts billed or currently billable to or due from our customers related to revenue from contracts with customers. As performance obligations are satisfied, we have an unconditional right to payment and billing is generally performed monthly; therefore, we do not have significant contract assets or liabilities.

No adjustments are made to the promised amount of consideration for the effects of a significant financing component as the period between when we transfer a promised service to a customer and when the customer pays for that service is expected to be one year or less.

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Note 20. Non-U.S. Activities

We define our non-U.S. activities as those revenue-producing business activities that arise from clients which are generally serviced or managed outside the U.S. Due to the integrated nature of our business, precise segregation of our U.S. and non-U.S. activities is not possible.

Subjective estimates, assumptions and other judgments are applied to quantify the financial results and assets related to our non-U.S. activities, including our application of funds transfer pricing, our asset and liability management policies and our allocation of certain indirect corporate expenses. Management periodically reviews and updates its processes for quantifying the financial results and assets related to our non-U.S. activities.

The following table presents our U.S. and non-U.S. financial results for the periods indicated:

(In millions)	Three Months Ended March 31,					
	2019			2018		
	Non-U.S. \$	U.S. \$	Total	Non-U.S. \$	U.S. \$	Total
Total revenue	\$1,231	\$1,701	\$2,932	\$1,321	\$1,735	\$3,056
Income before income tax expense	249	386	635	395	393	788

⁽¹⁾ Geographic mix is generally based on the domicile of the entity servicing the funds and is not necessarily representative of the underlying asset mix.

Non-U.S. assets were \$77.73 billion and \$78.49 billion as of March 31, 2019 and 2018, respectively.

Report of Ernst & Young LLP, Independent Registered Public Accounting Firm

The Shareholders and Board of Directors of State Street Corporation

Results of Review of Interim Financial Statements

We have reviewed the accompanying consolidated statement of condition of State Street Corporation (the "Corporation") as of March 31, 2019, and the related consolidated statements of income and comprehensive income, changes in shareholders' equity and cash flows for the three-month periods ended March 31, 2019 and 2018, and the related condensed notes (collectively referred to as the "condensed consolidated interim financial statements"). Based on our reviews, we are not aware of any material modifications that should be made to the condensed consolidated interim financial statements for them to be in conformity with U.S. generally accepted accounting principles.

We have previously audited, in accordance with the standards of the Public Company Accounting Oversight Board (United States) ("PCAOB"), the consolidated statement of condition of the Corporation as of December 31, 2018, the related consolidated statements of income, comprehensive income, changes in shareholders' equity and cash flows for the year then ended, and the related notes (not presented herein); and in our report dated February 21, 2019, we expressed an unqualified audit opinion on those consolidated financial statements. As described in Note 1 to the Corporation's unaudited interim condensed consolidated financial statements, the Corporation elected to change its method of accounting for investments in low income housing tax credits from the equity method of accounting to the proportional amortization method of accounting effective January 1, 2019 and applied the change on a retrospective basis resulting in revision of the December 31, 2018 consolidated statement of condition. We have not audited and reported on the revised statement of condition reflecting the adoption of the proportional amortization method of accounting.

Basis for Review Results

These financial statements are the responsibility of the Corporation's management. We are a public accounting firm registered with the PCAOB and are required to be independent with respect to the Corporation in accordance with the U.S. federal securities laws and the applicable rules and regulations of the SEC and the PCAOB. We conducted our review in accordance with the standards of the PCAOB. A review of interim financial statements consists principally of applying analytical procedures and making inquiries of persons responsible for financial and accounting matters. It is substantially less in scope than an audit conducted in accordance with the standards of the PCAOB, the objective of which is the expression of an opinion regarding the financial statements taken as a whole. Accordingly, we do not express such an opinion.

/s/ Ernst & Young LLP
Boston, Massachusetts
May 1, 2019

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ABS	Asset-backed securities	G-SIB	Global systemically important bank
AFS	Available-for-sale	HQLA	High-quality liquid assets
ALLL	Allowance for loans and leases losses	HTM	Held-to-maturity
AOCI	Accumulated other comprehensive income (loss)	LCR	Liquidity coverage ratio
ASU	Accounting Standards Update	LIHTC	Low income housing tax credits
AUC/A	Assets under custody and/or administration	LTD	Long-term debt
AUM	Assets under management	MBS	Mortgage-backed securities
bps	Basis points	NII	Net interest income
CET1	Common equity tier 1	NIM	Net interest margin
CMO	Collateralized mortgage obligations	OCI	Other comprehensive income (loss)
CVA	Credit valuation adjustment	OTTI	Other-than-temporary-impairment
DOJ	Department of Justice	PCAOB	Public Company Accounting Oversight Board
EPS	Earnings per share	RWA(1)	Risk-weighted assets
ETF	Exchange-traded fund	SEC	Securities and Exchange Commission
EVE	Economic value of equity	SLR	Supplementary leverage ratio
FDIC	Federal Deposit Insurance Corporation	SPDR	Spider; Standard and Poor's depository receipt
FHLB	Federal Home Loan Bank of Boston	SPOE Strategy	Single Point of Entry Strategy
FTE	Fully taxable-equivalent	TLAC	Total loss-absorbing capacity
FX	Foreign exchange	UOM	Unit of measure
GAAP	Generally accepted accounting principles	VaR	Value-at-Risk

(1) As defined by the applicable U.S. regulations.

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GLOSSARY

2018 Form 10-K: State Street Corporation Form 10-K for the year ended December 31, 2018.

Asset-backed securities: A financial security backed by collateralized assets, other than real estate or mortgage backed securities.

Assets under custody and/or administration: Assets that we hold directly or indirectly on behalf of clients under a safekeeping or custody arrangement or for which we provide administrative services for clients. To the extent that we provide more than one AUC/A service for a client's assets, the value of the asset is only counted once in the total amount of AUC/A.

Assets under management: The total market value of client assets for which we provide investment management strategy services, advisory services and/or distribution services generating management fees based on a percentage of the assets' market values. These client assets are not included on our balance sheet.

Beacon: A multi-year program, announced in October 2015, to create cost efficiencies through changes in our operational processes and to further digitize our processes and interfaces with our clients.

Certificates of deposit: A savings certificate with a fixed maturity date, specified fixed interest rate and can be issued in any denomination aside from minimum investment requirements. A CD restricts access to the funds until the maturity date of the investment.

Collateralized loan obligations: A security backed by a pool of debt, primarily senior secured leveraged loans. CLOs are similar to collateralized mortgage obligations, except for the different type of underlying loan. With a CLO, the investor receives scheduled debt payments from the underlying loans, assuming most of the risk in the event borrowers default, but is offered greater diversity and the potential for higher-than-average returns.

Commercial real estate: Property intended to generate profit from capital gains or rental income. CRE loans are term loans secured by commercial and multifamily properties. We seek CRE loans with strong competitive positions in major domestic markets, stable cash flows, modest leverage and experienced institutional ownership.

Deposit beta: A measure of how much of an interest rate increase is expected to be passed on to client interest-bearing accounts, on average.

Depot bank: A German term, specified by the country's law on investment companies, which essentially corresponds to 'custodian'.

Doubtful: Doubtful loans and leases meet the same definition of substandard loans and leases (i.e., well-defined weaknesses that jeopardize repayment with the possibility that we will sustain some loss) with the added characteristic that the

High-quality liquid assets: Cash or assets that can be converted into cash at little or no loss of value in private markets and are considered unencumbered.

Investment grade: A rating of loans and leases to counterparties with strong credit quality and low expected credit risk and probability of default. It applies to counterparties with a strong capacity to support the timely repayment of any financial commitment.

Liquidity coverage ratio: The ratio of encumbered high-quality liquid assets divided by expected total net cash outflows over a 30-day stress period. A Basel III framework requirement for banks and bank holding companies to measure liquidity, it is designed to ensure that certain banking institutions, including us, maintain a minimum amount of unencumbered HQLA sufficient to withstand the net cash outflow under a hypothetical standardized acute liquidity stress scenario for a 30-day stress period.

Net asset value: The amount of net assets attributable to each share/unit of the fund at a specific date or time.

Net stable funding ratio: The ratio of the amount of available stable funding relative to the amount of required stable funding. This ratio should be equal to at least 100% on an ongoing basis.

Other-than-temporary-impairment: Impairment charge taken on a security whose fair value has fallen below its carrying value on balance sheet and its value is not expected to recover through the holding period of the security.

Probability of default: A measure of the likelihood that a credit obligor will enter into default status.

Qualified financial contracts: Securities contracts, commodity contracts, forward contracts, repurchase agreements, swap agreements and any other contract determined by the FDIC to be a qualified financial contract.

Risk-weighted assets: A measurement used to quantify risk inherent in our on and off-balance sheet assets by adjusting the asset value for risk. RWA is used in the calculation of our risk-based capital ratios.

Special mention: Loans and leases that consist of counterparties with potential weaknesses that, if uncorrected, may result in deterioration of repayment prospects.

Speculative: Loans and leases that consist of counterparties that face ongoing uncertainties or exposure to business, financial, or economic downturns. However, these counterparties may have financial flexibility or access to financial alternatives, which allow for financial commitments to be met.

Substandard: Loans and leases that consist of counterparties with well-defined weakness that jeopardizes repayment with the possibility we will sustain some loss.

Supplementary leverage ratio: The ratio of our tier 1 capital to our total leverage exposure, which measures our capital adequacy relative to our on and off-balance sheet assets.

Total loss-absorbing capacity: The sum of our tier 1 regulatory capital plus eligible external long-term debt issued by us.

Value-at-Risk: Statistical model used to measure the potential loss in value of a portfolio that could occur in normal markets condition, over a defined holding period, within a certain confidence level.

weaknesses make collection or liquidation in full highly questionable and improbable.

Economic value of equity: A measure designed to estimate the fair value of assets, liabilities and off-balance sheet instruments based on a discounted cash flow model.

Exchange-Traded Fund: A type of exchange-traded investment product that offer investors a way to pool their money in a fund that makes investments in stocks, bonds, or other assets and, in return, to receive an interest in that investment pool. ETF shares are traded on a national stock exchange and at market prices that may or may not be the same as the net asset value.

Exposure-at-default: A measure used in the calculation of regulatory capital under Basel III. It can be defined as the expected amount of loss a bank may be exposed to upon default of an obligor.

Global systemically important bank: A financial institution whose distress or disorderly failure, because of its size, complexity and systemic interconnectedness, would cause significant disruption to the wider financial system and economic activity, which will be subject to additional capital requirements.

Held-to-maturity investment securities: We classify investments in debt securities as held-to-maturity only if we have the positive intent and ability to hold those securities to maturity. Investments in debt securities classified as held-to-maturity are measured subsequently at amortized cost in the statement of financial position.

Variable interest entity: An entity that: (1) lacks enough equity investment at risk to permit the entity to finance its activities without additional financial support from other parties; (2) has equity owners that lack the right to make significant decisions affecting the entity's operations; and/or (3) has equity owners that do not have an obligation to absorb or the right to receive the entity's losses or return.

PART II. OTHER INFORMATION**ITEM 2. UNREGISTERED SALES OF EQUITY SECURITIES AND USE OF PROCEEDS**

In June 2018, our Board approved a common stock purchase program authorizing the purchase of up to \$1.2 billion of our common stock through June 30, 2019 (the 2018 Program).

Stock purchases may be made using various types of mechanisms, including open market purchases, accelerated share repurchases or transactions off market, and may be made under Rule 10b5-1 trading programs. The timing of stock purchases, types of transactions and number of shares purchased will depend on several factors, including market conditions and State Street's capital positions, financial

performance and investment opportunities. Our common stock purchase programs do not have specific price targets and may be suspended at any time. We may employ third-party broker/dealers to acquire shares on the open market in connection with our common stock purchase programs. We repurchased \$300 million shares in the first quarter of 2019 and may repurchase up to \$300 million in the second quarter of 2019 under the 2018 Program.

The following table presents purchases of our common stock under the 2018 Program and related information for each of the months in the quarter ended March 31, 2019.

Period:	Total Number of Shares Purchased (In thousands)	Average Price Paid Per Share	Total Number of Shares Purchased as Part of Publicly Announced Program (In thousands)	Approximate Dollar Value of Shares That May Yet be Purchased Under Publicly Announced Program (In millions)
January 1 - January 31, 2019	1,297	\$ 71.34	1,297	\$ 508
February 1 - February 28, 2019	2,933	70.74	2,933	300
March 1 - March 31, 2019	—	—	—	300
Total	4,230	\$ 70.93	4,230	\$ 300

ITEM 6. EXHIBITS

Exhibit No.	Exhibit Description
<u>10.1</u> †	<u>Form of amended and restated employment agreement entered into on December 13, 2018 with each of Joseph L. Hooley, Eric W. Aboaf, Jeff D. Conway, Karen C. Keenan and Ronald P. O'Hanley</u>
<u>10.2</u> †	<u>Supplemental Cash Incentive Plan, as amended, First and Second Amendments thereto, and form of award agreement thereunder</u>
<u>10.3</u> †	<u>State Street's 2017 Stock Incentive Plan, and forms of award agreement thereunder</u>
<u>10.4</u> †	<u>Transition and Separation Agreement entered into with Jeff D. Conway dated March 20, 2019</u>
<u>10.5</u> †	<u>State Street's Management Supplemental Savings Plan, Amended and Restated, as amended</u>
<u>15</u>	<u>Letter regarding unaudited interim financial information</u>
<u>18.1</u>	<u>Letter regarding change in accounting principle</u>
<u>31.1</u>	<u>Rule 13a-14(a)/15d-14(a) Certification of Chairman and Chief Executive Officer</u>
<u>31.2</u>	<u>Rule 13a-14(a)/15d-14(a) Certification of Chief Financial Officer</u>
<u>32</u>	<u>Section 1350 Certifications</u>
101.INS	The instance document does not appear in the interactive data file because its XBRL tags are embedded within the inline XBRL document

* 101.SCH XBRL Taxonomy Extension Schema Document

* 101.CAL XBRL Taxonomy Calculation Linkbase Document

* 101.DEF XBRL Taxonomy Extension Definition Linkbase Document

* 101.LAB XBRL Taxonomy Label Linkbase Document

* 101.PRE XBRL Taxonomy Presentation Linkbase Document

† Denotes management contract or compensatory plan or arrangement

* Submitted electronically herewith

Attached as Exhibit 101 to this report are the following formatted in XBRL (Extensible Business Reporting Language): (i) consolidated statement of income for the three months ended March 31, 2019 and 2018, (ii) consolidated statement of comprehensive income for the three months ended March 31, 2019 and 2018, (iii) consolidated statement of condition as of March 31, 2019 and December 31, 2018, (iv) consolidated statement of changes in shareholders' equity for the three months ended March 31, 2019 and 2018, (v) consolidated statement of cash flows for the three months ended March 31, 2019 and 2018, and (vi) notes to consolidated financial statements.

SIGNATURES

Pursuant to the requirement of the Securities Exchange Act of 1934, the registrant has duly caused this report to be signed on its behalf by the undersigned hereunto duly authorized.

STATE STREET CORPORATION
(Registrant)

Date: May 1, 2019 By: /s/ ERIC W. ABOAF
Eric W. Aboaf,
Executive Vice President and Chief Financial Officer (Principal Financial Officer)

Date: May 1, 2019 By: /s/ IAN W. APPELYARD
Ian W. Appleyard,
*Executive Vice President, Global Controller and Chief Accounting Officer
(Principal Accounting Officer)*