

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

(SEC ID No. 8-7221)

**Consolidated Balance Sheet
December 31, 2018**

Filed pursuant to Rule 17a-5(e)(3) under the Securities Exchange Act
of 1934 as a Public Document

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Report of Independent Registered Public Accounting Firm

To the Board of Directors and Stockholder of
Merrill Lynch, Pierce, Fenner & Smith Incorporated:

Opinion on the Financial Statement – Balance Sheet

We have audited the accompanying consolidated balance sheet of Merrill Lynch, Pierce, Fenner & Smith Incorporated and its subsidiaries (the “Company”) as of December 31, 2018, including the related notes (collectively referred to as the “consolidated financial statement”). In our opinion, the consolidated financial statement presents fairly, in all material respects, the financial position of the Company as of December 31, 2018 in conformity with accounting principles generally accepted in the United States of America.

Basis for Opinion

The consolidated financial statement is the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s consolidated financial statement based on our audit. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit of this consolidated financial statement in accordance with the standards of the PCAOB. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statement is free of material misstatement, whether due to error or fraud.

Our audit included performing procedures to assess the risks of material misstatement of the consolidated financial statement, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statement. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statement. We believe that our audit provides a reasonable basis for our opinion.

PricewaterhouseCoopers LLP

February 28, 2019

We have served as the Company’s auditor since 2009.

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries
Consolidated Balance Sheet
As of December 31, 2018

(dollars in millions)

ASSETS

Cash and cash equivalents	\$ 2,533
Cash and securities segregated for regulatory purposes or deposited with clearing organizations	25,069
Securities financing transactions	
Receivables under resale agreements (includes \$21,577 measured at fair value in accordance with the fair value option election)	92,165
Receivables under securities borrowed transactions	77,188
	<u>169,353</u>
Trading assets, at fair value (includes securities pledged as collateral that can be sold or repledged of \$19,503)	
U.S. Treasury and government agencies	54,050
Equities and convertible debentures	12,341
Corporate debt and preferred stock	4,208
Municipals, money markets and other	5,957
Mortgages, mortgage-backed, and asset-backed	5,824
Derivative contracts	2,113
	<u>84,493</u>
Securities received as collateral, at fair value	16,373
Other receivables	
Customers (net of allowance for doubtful accounts of \$1)	17,974
Brokers and dealers	17,836
Interest and other, including loans due from affiliates	7,592
	<u>43,402</u>
Equipment and facilities, net	255
Goodwill and intangible assets (net of accumulated amortization of \$2,261)	4,754
Other assets	239
	<u>239</u>
Total Assets	\$ <u>346,471</u>

**Assets of Consolidated VIEs Included in Total Assets Above (isolated to settle the liabilities
of the VIEs)**

Trading assets	\$ 1,165
Total Assets of Consolidated VIEs	\$ <u>1,165</u>

The accompanying notes are an integral part of the Consolidated Balance Sheet

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries
Consolidated Balance Sheet
As of December 31, 2018

(dollars in millions, except share and per share amounts)

LIABILITIES

Securities financing transactions

Payables under repurchase agreements (includes \$400 measured at fair value in accordance with the fair value option election)	\$ 127,226
Payables under securities loaned transactions	34,005
	<u>161,231</u>

Trading liabilities, at fair value

U.S. Treasury and government agencies	8,107
Equities and convertible debentures	4,803
Corporate debt and preferred stock	2,859
Derivative contracts	2,319
Mortgages, mortgage-backed, asset-backed and other	127
	<u>18,215</u>

Obligation to return securities received as collateral, at fair value	19,466
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Other payables

Customers	57,419
Brokers and dealers	21,993
Compensation and benefits	5,171
Interest and other (includes \$805 measured at fair value in accordance with the fair value option election)	4,342
Loans due to affiliates	22,984
	<u>111,909</u>

Commitments, contingencies, and guarantees (See Note 12)

Subordinated borrowings	14,478
Total Liabilities	<u>325,299</u>

STOCKHOLDER'S EQUITY

Common stock, par value \$1 per share; 1,200 shares authorized; 1,000 shares issued and outstanding	-
Paid-in capital	11,025
Accumulated other comprehensive loss (net of tax)	(1)
Retained earnings	10,148
Total Stockholder's Equity	<u>21,172</u>
Total Liabilities and Stockholder's Equity	<u>\$ 346,471</u>

Liabilities of Consolidated VIEs Included in Total Liabilities Above

Interest and Other	\$ 805
Total Liabilities of Consolidated VIEs	<u>\$ 805</u>

The accompanying notes are an integral part of the Consolidated Balance Sheet

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

1. Organization

Description of Business

Merrill Lynch, Pierce, Fenner & Smith Incorporated (“MLPF&S”), together with its subsidiaries (the “Company”), acts as a broker (i.e., agent) for corporate, institutional, government, and other clients and as a dealer (i.e., principal) in the purchase and sale of various financial instruments, including corporate debt, equity securities, United States (“U.S.”) Government securities, and U.S. Government agency obligations. The Company holds memberships and/or has third-party clearing relationships with commodity and financial futures exchanges and clearing associations in the U.S. and outside the U.S., and it also carries positions reflecting trades executed on exchanges outside of the U.S. through affiliates and/or third-party clearing brokers. As an investment banking entity, the Company provides corporate, institutional, and government clients with a wide variety of financial services including underwriting the sale of securities to the public, structured and derivative financing, private placements, mortgage and lease financing and financial advisory services, including advice on mergers and acquisitions. MLPF&S is registered as a broker-dealer and investment adviser with the U.S. Securities and Exchange Commission (“SEC”) and is a member firm of the Financial Industry Regulatory Authority (“FINRA”), the New York Stock Exchange (“NYSE”), and other exchanges. MLPF&S is also registered as a futures commission merchant and swap firm with the U.S. Commodity Futures Trading Commission (“CFTC”) and the National Futures Association (“NFA”) and is a member firm of certain futures exchanges, including but not limited to, the Chicago Mercantile Exchange (“CME”) and the Chicago Board of Trade. Certain products and services may be provided through affiliates. See Note 3 to the Consolidated Balance Sheet for further information.

The Company also provides securities clearing services for its own account and for unaffiliated broker-dealers through its Broadcort Division and through its largest subsidiary, Merrill Lynch Professional Clearing Corp. (“MLPCC”). MLPCC is registered as a broker-dealer with the SEC and is a member firm of FINRA. MLPCC is also registered as a futures commission merchant with the CFTC and is a member of the NFA. MLPCC provides prime brokerage services such as margin lending, securities financing, and clearing and settlement to broker-dealers, introducing broker-dealers and other professional trading entities on a fully disclosed basis.

The Company also provides discretionary and non-discretionary investment advisory services. These advisory services include the Merrill Lynch Consults® Service, the Investment Advisory Program, the Merrill Lynch Personal Advisor program, the Merrill Lynch Unified Managed Account program, and Merrill Lynch One. The Company provides financing to clients, including margin lending and other extensions of credit. The Company also provides products and services through its Merrill Edge® platform.

Through its retirement group, the Company provides a wide variety of investment and custodial services to individuals through Individual Retirement Accounts (“IRAs”) and small business retirement programs. The Company also provides investment, administration, communications, and consulting services to corporations and their employees for their retirement programs, including 401(k), pension, profit-sharing and nonqualified deferred compensation plans.

The Company is a wholly-owned indirect subsidiary of Bank of America Corporation (“Bank of America” or the “Parent”). The Company’s direct parent is BAC North America Holding Company, which is a wholly-owned subsidiary of NB Holdings Corporation (“NB Holdings”). NB Holdings is a wholly-owned subsidiary of Bank of America.

In July 2015, Bank of America announced a decision to separate the retail and institutional broker-dealer activities currently operating through the Company into two distinct legal entities. Retail customers will continue to be serviced through the Company, while institutional clients currently transacting through the Company will move to a new broker-dealer entity, BofA Securities, Inc. (formerly known as BofAML Securities, Inc.), which is also a wholly-owned indirect subsidiary of Bank of America. The migration of

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Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

institutional broker-dealer activities to BofA Securities, Inc. is subject to regulatory approvals and is intended to conclude in the second quarter of 2019. See Note 16.

2. Summary of Significant Accounting Policies

Basis of Presentation

The Consolidated Balance Sheet are presented in accordance with U.S. Generally Accepted Accounting Principles (“U.S. GAAP”). Intercompany transactions and balances have been eliminated. The Consolidated Balance Sheet are presented in U.S. dollars.

Consolidation Accounting

The Consolidated Balance Sheet include the accounts of the Company and its subsidiaries in which the Company has a controlling financial interest.

The Company determines whether it is required to consolidate an entity by first evaluating whether the entity qualifies as a voting rights entity (“VRE”) or as a variable interest entity (“VIE”).

VREs — VREs are defined to include entities that have both equity at risk that is sufficient to fund future operations and have equity investors that have a controlling financial interest in the entity through their equity investments. In accordance with Accounting Standards Codification (“ASC”) 810, *Consolidation*, (“Consolidation Accounting”), the Company generally consolidates those VREs where it has the majority of the voting rights.

VIEs — Those entities that do not meet the VRE criteria are generally analyzed for consolidation as VIEs. A VIE is an entity that lacks equity investors or whose equity investors do not have a controlling financial interest in the entity through their equity investments. The Company consolidates a VIE if it has both the power to direct the activities that most significantly impact the VIE’s economic performance and an obligation to absorb losses or the right to receive benefits that could potentially be significant to the VIE. On a quarterly basis, the Company reassesses its involvement with the VIE and evaluates the impact of changes in governing documents and its financial interests in the VIE. The consolidation status of the VIEs with which the Company is involved may change as a result of such reassessments. Changes in consolidation status are applied prospectively, with assets and liabilities of a newly consolidated VIE initially recorded at fair value.

The Company consolidates certain VIEs if it has control over the initial design of the vehicle or manages the assets in the vehicle and also absorbs potentially significant gains or losses through an investment in the vehicle, derivative contracts or other arrangements. The Company does not consolidate a VIE if a single investor controlled the initial design of the vehicle or manages the assets in the vehicles or if the Company does not have a variable interest that could potentially be significant to the vehicle.

Securitization Activities

In the normal course of business, the Company securitizes pools of residential mortgage-backed securities, municipal bonds and other types of financial assets. The Company may retain interests in the securitized financial assets by holding notes or other debt instruments issued by the securitization vehicle. In accordance with ASC 860, *Transfers and Servicing* (“Financial Transfers and Servicing Accounting”), the Company recognizes transfers of financial assets where it relinquishes control as sales to the extent of cash and any other proceeds received.

The Company may also transfer financial assets into municipal bond or resecuritization trusts. The Company consolidates a municipal bond or resecuritization trust if it has control over the ongoing activities of the trust such as the remarketing of the trust’s liabilities or, if there are no ongoing activities, sole discretion over the design of the trust, including the identification of securities to be transferred in and the structure of securities to be issued, and also retains securities or has liquidity or other commitments, if applicable that could

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

potentially be significant to the trust. The Company does not consolidate a municipal bond or resecuritization trust if one or a limited number of third party investors share responsibility for the design of the trust or have control over the significant activities of the trust through liquidation or other substantive rights.

Use of Estimates

In presenting the Consolidated Balance Sheet, management makes estimates including the following:

- Valuations of assets and liabilities requiring fair value estimates;
- The ability to realize deferred tax assets and the recognition and measurement of uncertain tax positions;
- The carrying amount of goodwill and intangible assets;
- The outcome of pending litigation;
- Determination of whether VIEs should be consolidated;
- Incentive-based compensation accruals and valuation of share-based payment compensation arrangements; and
- Other matters that affect the reported amounts and disclosure of contingencies in the Consolidated Balance Sheet.

Estimates, by their nature, are based on judgment and available information. Therefore, actual results could differ from those estimates and could have a material impact on the Consolidated Balance Sheet, and it is possible that such changes could occur in the near term. A discussion of certain areas in which estimates are a significant component of the amounts reported in the Consolidated Balance Sheet follows:

Fair Value Measurement

The Company accounts for a significant portion of its financial instruments at fair value or considers fair value in their measurement. The Company accounts for certain financial assets and liabilities at fair value under various accounting literature that requires an entity to base fair value on an exit price, including ASC 815, *Derivatives and Hedging*, (“Derivatives Accounting”), and the fair value option election in accordance with ASC 825-10-25, *Financial Instruments – Recognition*, (“fair value option election”). The Company also accounts for certain assets at fair value under applicable industry guidance, namely ASC 940 *Financial Services – Brokers and Dealers* (“Broker-Dealer Guide”). ASC 820, *Fair Value Measurements and Disclosures*, (“Fair Value Accounting”) defines fair value, establishes a framework for measuring fair value, establishes a fair value hierarchy based on the quality of inputs used to measure fair value and enhances disclosure requirements for fair value measurements.

In determining fair value of financial assets and financial liabilities, the Company considers the credit risk of its counterparties, as well as its own creditworthiness. The Company attempts to mitigate credit risk to third parties by entering into netting and collateral arrangements. Net counterparty exposure (counterparty positions netted by offsetting transactions and both cash and securities collateral) is valued for counterparty creditworthiness and the resultant credit valuation adjustment (“CVA”) is incorporated into the fair value of the financial assets. As of December 31, 2018, the impact of CVA was not material to the Company.

Fair Value Accounting also requires that the Company consider its own creditworthiness when determining the fair value of certain instruments (i.e., debit valuation adjustment or “DVA”). The impact of the Company’s DVA is incorporated into the fair value of instruments such as over-the-counter (“OTC”) derivatives contracts. As of December 31, 2018, the impact of DVA was not material to the Company.

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The Company includes a funding valuation adjustment (“FVA”) into valuation estimates primarily to include funding costs on uncollateralized derivatives and derivatives where the Company is not permitted to use the collateral it receives. FVA related to derivative assets and liabilities is the effect of funding costs on the fair value of these derivatives. The impact of the Company’s FVA is incorporated into the fair value of its derivatives. As of December 31, 2018, the impact of FVA was not material to the Company.

Legal Reserves

The Company is occasionally a party in various actions, some of which involve claims for substantial amounts. Amounts are accrued for the financial resolution of claims that have either been asserted or are deemed probable of assertion if, in the opinion of management, it is both probable that a liability has been incurred and the amount of the loss can be reasonably estimated. In many cases, it is not possible to determine whether a liability has been incurred or to estimate the ultimate or minimum amount of that liability until the case is close to resolution, in which case no accrual is made until that time. Accruals are subject to significant estimation by management, with input from any outside counsel handling the matter. Refer to Note 12 for further information.

Income Taxes

The Company provides for income taxes on all transactions that have been recognized in the Consolidated Balance Sheet in accordance with ASC 740 *Income Taxes* (“Income Tax Accounting”). Accordingly, deferred taxes are adjusted to reflect the tax rates at which future taxable amounts will likely be settled or realized. The effects of tax rate changes on deferred tax liabilities and deferred tax assets, as well as other changes in income tax laws, are recognized in net earnings in the period during which such changes are enacted. Valuation allowances are established when necessary to reduce deferred tax assets to the amounts that are more-likely-than-not to be realized. Pursuant to Income Tax Accounting, the Company may consider various sources of evidence in assessing the necessity of valuation allowances to reduce deferred tax assets to amounts more-likely-than-not to be realized, including the following: 1) past and projected earnings, including losses, of the Company and Bank of America, as certain tax attributes such as U.S. net operating losses (“NOLs”), U.S. capital loss carryforwards and foreign tax credit carryforwards can be utilized by Bank of America in certain income tax returns, 2) tax carryforward periods, and 3) tax planning strategies and other factors of the legal entities, such as the intercompany tax allocation agreement. Included within the Company’s net deferred tax assets are carryforward amounts generated in the U.S. that are deductible in the future as NOLs. The Company has concluded that these net deferred tax assets are more-likely-than-not to be fully utilized prior to expiration, based on the projected level of future taxable income of the Company and Bank of America, which is relevant due to the intercompany tax allocation agreement. For this purpose, future taxable income was projected based on forecasts, historical earnings after adjusting for past market disruptions and the anticipated impact of the differences between pre-tax earnings and taxable income.

The Company recognizes and measures its unrecognized tax benefits (“UTB”) in accordance with Income Tax Accounting. The Company estimates the likelihood, based on their technical merits, that tax positions will be sustained upon examination considering the facts and circumstances and information available at the end of each period. The Company adjusts the level of unrecognized tax benefits when there is more information available, or when an event occurs requiring a change. In accordance with Bank of America’s intercompany tax allocation agreement, any new or subsequent change in an unrecognized tax benefit related to Bank of America’s state consolidated, combined or unitary return in which the Company is a member will generally not be reflected in the Company’s Consolidated Balance Sheet. However, upon resolution of the item, any significant impact determined to be attributable to the Company will be reflected in the Company’s Consolidated Balance Sheet.

Under the intercompany allocation agreements, tax benefits associated with NOLs (or other tax attributes) of the Company are payable to the Company generally upon utilization in Bank of America’s tax returns.

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

In addition, under these agreements, substantially all current and deferred income taxes (federal, combined and unitary state) are recorded as income tax receivable and payable due to affiliate, which are included on the Consolidated Balance Sheet within *Interest and other, including loans due from affiliates, Interest and other payables* and *Loans due to affiliates* and settled on at least a semi-annual basis. See Note 15 for further discussion of income taxes.

Goodwill and Intangible Assets

Goodwill is the purchase premium after adjusting for the fair value of net assets acquired. Goodwill is not amortized but is reviewed for impairment on an annual basis, or when events or circumstances indicate a potential impairment at the reporting unit level in accordance with ASC 350, *Intangibles-Goodwill and Other* (“Goodwill and Intangibles Assets Accounting”).

In performing its goodwill impairment testing, the Company first assesses qualitative factors to determine whether it is more likely than not that its fair value is less than its carrying value. Qualitative factors include, among other things, macroeconomic conditions, industry and market considerations, financial performance and other relevant considerations affecting the Company.

If the Company concludes it is more likely than not that its fair value is less than its carrying value, a quantitative assessment is performed. If the fair value of the Company exceeds its carrying value, goodwill is considered not impaired; however, if the carrying value of the Company exceeds its fair value, an additional step must be performed to measure potential impairment.

This step involves calculating an implied fair value of goodwill, which is the excess of the fair value of the Company, as determined in the first step, over the aggregate fair values of the assets, liabilities and identifiable intangibles as if the Company was being acquired in a business combination. If the implied fair value of goodwill exceeds the book value of goodwill, there is no impairment. If the book value of goodwill assigned exceeds the implied fair value of goodwill, an impairment charge is recorded for the excess. An impairment loss recognized cannot exceed the book value of goodwill. An impairment loss establishes a new basis in the goodwill and subsequent reversals of goodwill impairment losses are not permitted under applicable accounting guidance.

The Company’s intangible assets with definite lives consisted primarily of value assigned to acquire customer relationships. These intangible assets with definite lives have been fully amortized and, accordingly, had no net carrying value as of December 31, 2018.

Intangible assets with indefinite lives consist of the Company’s proportion of the value assigned to the Merrill Lynch brand and are tested for impairment in accordance with Goodwill and Intangible Assets Accounting. Intangible assets with indefinite lives are not amortized.

The Company makes certain judgments with respect to its goodwill and intangible assets, including assumptions and estimates used to determine fair value and evaluate impairment. Refer to Note 9 for further information.

Consolidated Balance Sheet Captions

The following are descriptions related to specific consolidated balance sheet captions.

Cash and Cash Equivalents

The Company defines cash equivalents as short-term, highly liquid securities, and interest-earning deposits with maturities, when purchased, of 90 days or less, that are not used for trading purposes.

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Cash and Securities Segregated for Regulatory Purposes or Deposited with Clearing Organizations

The Company maintains relationships with clients and therefore is obligated by rules mandated by its primary regulators, including the SEC and the CFTC in the U.S., to segregate or set aside cash and/or qualified securities to satisfy these regulations in order to protect customer assets. In addition, the Company is a member of various clearing organizations and exchanges at which it maintains cash and/or securities required for the conduct of its day-to-day clearance activities. At December 31, 2018, the Company had \$5.9 billion of cash and securities at clearing organizations. The amount recognized for *Cash and securities segregated for regulatory purposes or deposited with clearing organizations* in the Consolidated Balance Sheet approximates fair value. For purposes of the fair value hierarchy, segregated cash is classified as Level 1 and segregated securities are classified as Level 1 and Level 2. Refer to Note 5 for further information.

Included in *Cash and securities segregated for regulatory purposes or deposited with clearing organizations* at December 31, 2018 was \$17.5 billion of cash and securities that had been segregated as required by CFTC regulations. This includes \$7,257 million of cash that is considered restricted cash by the Company. Also included in *Cash and securities segregated for regulatory purposes or deposited with clearing organizations* at December 31, 2018 was \$1.7 billion of securities that had been segregated in special reserve accounts as required by Rule 15c3-3 under the Securities Exchange Act of 1934 (“Rule 15c3-3”). Additional segregated assets as required by Rule 15c3-3 are included within *Receivables under resale agreements* and *Brokers and dealers receivables*.

Securities Financing Transactions

Resale and repurchase agreements are treated as collateralized financing transactions, except in instances where the transaction is required to be accounted for as individual sale and purchase transactions. Generally, these transactions are recorded at their acquisition or sale price plus accrued interest, except for certain financing agreements that the Company accounts for under the fair value option.

Resale and repurchase agreements recorded at their contractual amounts plus accrued interest approximate fair value, as the fair value of these items is not materially sensitive to shifts in market interest rates because of the short-term nature of these instruments and/or variable interest rates or to credit risk because the resale and repurchase agreements are substantially collateralized. For purposes of the fair value hierarchy, these transactions are classified as Level 2.

The Company may use securities received as collateral for resale agreements to satisfy regulatory requirements such as Rule 15c3-3. At December 31, 2018, approximately \$17.8 billion of such securities had been segregated in special reserve accounts as required by Rule 15c3-3.

Securities borrowed and loaned transactions are recorded at the amount of cash collateral advanced or received plus accrued interest. Securities borrowed transactions require the Company to provide the counterparty with collateral in the form of cash, letters of credit, or other securities. The Company receives collateral in the form of cash or other securities for securities loaned transactions. The carrying value of securities borrowed and loaned transactions approximates fair value as these items are not materially sensitive to shifts in market interest rates because of their short-term nature and/or variable interest rates or to credit risk because securities borrowed and loaned transactions are substantially collateralized. For the purposes of the fair value hierarchy, these transactions are classified as Level 2.

For securities financing transactions, the Company’s policy is to monitor the market value of the principal amount loaned and obtain collateral from or return collateral pledged to counterparties, where appropriate. Securities financing agreements do not create material credit risk due to these collateral provisions; therefore, an allowance for loan losses is unnecessary.

A significant majority of securities financing activities are transacted under legally enforceable master agreements that give the Company, in the event of default by the counterparty, the right to liquidate securities

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Notes to Consolidated Balance Sheet

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held and to offset receivables and payables with the same counterparty. The Company offsets certain repurchase and resale transactions with the same counterparty on the Consolidated Balance Sheet where it has such a legally enforceable master netting agreement, and the transactions have the same maturity date.

All Company-owned securities pledged to counterparties where the counterparty has the right, by contract or custom, to sell or repledge the securities are disclosed parenthetically in *Trading assets* on the Consolidated Balance Sheet.

In transactions where the Company acts as the lender in a securities lending agreement and receives securities that can be pledged or sold as collateral, it recognizes an asset on the Consolidated Balance Sheet at fair value, representing the securities received (*Securities received as collateral*), and a liability, representing the obligation to return those securities (*Obligations to return securities received as collateral*). In certain instances, position netting may be applied to the securities received as collateral.

Trading Assets and Liabilities

Trading assets and trading liabilities consist of cash instruments (e.g., securities) and derivative instruments. See Note 6 for additional information on derivative instruments.

Trading assets and liabilities are recorded on a trade date basis at fair value. Included in trading liabilities are securities that the Company has sold but did not own and will therefore be obligated to purchase at a future date (“short sales”).

Derivatives

A derivative is an instrument whose value is derived from an underlying instrument or index, such as interest rates, equity security prices, currencies, commodity prices or credit spreads. Derivatives include futures, forwards, swaps, option contracts and other financial instruments with similar characteristics. Derivative contracts often involve future commitments to exchange interest payment streams or currencies based on a notional or contractual amount (e.g., interest rate swaps or currency forwards) or to purchase or sell other financial instruments at specified terms on a specified date (e.g., options to buy or sell securities or currencies). All derivatives are accounted for at fair value. Refer to Note 6 for further information.

Other Receivables and Payables

Customers

Customer securities transactions are recorded on a settlement date basis. Receivables from and payables to customers include amounts due on cash and margin transactions, including futures contracts and over-the-counter cleared swaps transacted on behalf of the Company’s customers. Securities owned by customers, including those that collateralize margin or other similar transactions, are not reflected on the Consolidated Balance Sheet.

Customer receivables include margin loan transactions where the Company will typically make a loan to a customer to finance the customer’s purchase of securities. These transactions are conducted through margin accounts. In these transactions, the customer is required to post collateral in excess of the value of the loan and the collateral must meet marketability criteria. Collateral is valued daily and must be maintained over the life of the loan. Given that these loans are fully collateralized by marketable securities, credit risk is negligible and reserves for loan losses are rarely required.

Brokers and Dealers

Receivables from brokers and dealers primarily include amounts receivable for securities not delivered by the Company to a purchaser by the settlement date (“fails to deliver”), margin deposits, and commissions. Payables to brokers and dealers primarily include amounts payable for securities not received by the Company from a seller by the settlement date (“fails to receive”). Brokers and dealers receivables and payables additionally include the variation margin related to futures contracts cleared on domestic and international derivatives

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exchanges as well as net receivables or net payables arising from unsettled trades. Included in brokers and dealers receivables at December 31, 2018 are amounts that had been segregated as required by CFTC regulations and amounts that had been segregated in special reserve accounts as required by Rule 15c3-3.

Compensation and Benefits

Compensation and benefits payables consists of salaries payable, financial advisor compensation, incentive and deferred compensation, payroll taxes, pension and other employee benefits.

Interest and Other

Interest and other receivables include interest receivable on corporate and governmental obligations, customer or other receivables, and stock-borrowed transactions, income taxes, underwriting and advisory fees, commissions and fees, and other receivables. Interest and other payables include interest payable for stock-loaned transactions, amounts payable for income taxes, dividends, other reserves, and other payables.

Equipment and Facilities

Equipment and facilities primarily consist of technology hardware and software, leasehold improvements, and owned facilities. Equipment and facilities are reported at historical cost, net of accumulated depreciation and amortization, except for land, which is reported at historical cost. The cost of certain facilities shared with affiliates is allocated to the Company by Bank of America based on the relative amount of space occupied.

Depreciation and amortization are computed using the straight-line method. Equipment is depreciated over its estimated useful life, while leasehold improvements are amortized over the lesser of the improvement's estimated economic useful life or the term of the lease.

Other Assets

Other assets consist primarily of prepaid expenses and deferred charges.

Loans Due to Affiliates

Loans due to affiliates consist of unsecured borrowings with Bank of America and NB Holdings. Refer to Note 3 for further information.

Subordinated Borrowings

The Company enters into subordinated borrowings with NB Holdings. Refer to Note 10 for further information.

New Accounting Pronouncements

Effective January 1, 2018, the Company adopted the new accounting standard for classification of certain cash receipts and cash payments, including changes in restricted cash, in the statement of cash flows. This new accounting guidance did not have a material impact on the Company's Consolidated Balance Sheet.

Effective January 1, 2018, the Company adopted the new accounting standard on the recognition and measurement of financial instruments, including certain equity investments and financial liabilities recorded at fair value under the fair value option, which did not have an impact on the Company's Balance Sheet.

Effective January 1, 2018, the Company adopted the new accounting standard that addresses certain tax effects in accumulated other comprehensive income ("OCI") related to the enactment of the Tax Cuts and Jobs Act ("the Tax Act"). Under this accounting standard, those tax effects, representing the difference between the newly enacted federal tax rate of 21 percent and the historical tax rate, will be reclassified from accumulated OCI to retained earnings. Effective January 1, 2018, the Company adopted the new accounting standard. The impact of this new standard was not material to the Company's Consolidated Balance Sheet.

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Effective January 1, 2018, the Company adopted the new accounting standard that requires that require lessees to recognize operating leases on the Consolidated Balance Sheet as right-of-use assets and lease liabilities based on the value of the discounted future lease payments. Lessor accounting is largely unchanged. Expanded disclosures about the nature and terms of lease agreements will be required prospectively. The Company elected to apply certain transition elections that allow for the continued application of the previous determination of whether a contract that existed at transition is or contains a lease, the associated lease classification, and the recognition of leases on January 1, 2019 through a cumulative-effect adjustment in retained earnings. Upon adoption, the Company recognized right-of-use assets and lease liabilities of \$1.2 billion.

The Financial Accounting Standards Board (“FASB”) issued a new accounting standard that will be effective for the Company on January 1, 2020. The standard replaces the existing measurement that is based on management’s best estimate of probable credit losses with management’s best estimate of lifetime expected credit losses. The standard will also expand credit quality disclosures. The Company is in the process of evaluating the impact of the provisions of this new accounting guidance. The ultimate impact will be dependent on the characteristics of the Company’s portfolio at adoption date as well as the macroeconomic conditions and forecast as of that date.

3. Related Party Transactions

The Company enters into repurchase and resale agreements and securities borrowed and loaned transactions to finance firm inventory positions and obtain securities for settlement with other companies affiliated by common ownership. The Company also provides securities brokerage, dealing, financing and underwriting and investment advisory services to affiliated companies. Further, the Company contracts a variety of services from Bank of America and certain affiliated companies including accounting, legal, regulatory compliance, transaction processing, purchasing, building management and other services.

The Company clears certain securities transactions through or for other affiliated companies on a fully-disclosed and non-disclosed basis.

The following two tables summarize related party balances included in the respective financial statement captions.

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries
Notes to Consolidated Balance Sheet
For the Year Ended December 31, 2018

Assets

(dollars in millions)

Cash and cash equivalents	\$	2,163
Cash and securities segregated for regulatory purposes or deposited with clearing organizations		4,636
Receivables under resale agreements		15,030
Receivables under securities borrowed transactions		19,928
Trading assets, including derivative contracts ¹		309
Securities received as collateral		4
Customer receivables		197
Brokers and dealers receivables		3,083
Loans due from affiliates		3,888
Interest and other receivables		365
Total	\$	<u>49,603</u>

¹ Net of counterparty and cash collateral netting

Liabilities

(dollars in millions)

Payables under repurchase agreements		12,107
Payables under securities loaned transactions		27,894
Trading liabilities, entirely comprised of derivative contracts ¹		275
Obligation to return securities received as collateral		4
Customer payables		6,513
Brokers and dealers payables		1,764
Interest and other payables		1,262
Loans due to affiliates		22,984
Subordinated borrowings		14,478
Total	\$	<u>87,281</u>

¹ Net of counterparty and cash collateral netting

The Company has established unsecured borrowing agreements with Bank of America and NB Holdings in the normal course of business. Amounts outstanding under these arrangements are included within *Loans due to affiliates*. The arrangements are summarized below:

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

Agreements with Bank of America

- MLPF&S: A \$5 billion uncommitted six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$0.3 billion was outstanding on the line of credit.
- MLPCC: A \$1 billion uncommitted six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$6 million was outstanding on the line of credit.
- BofA Securities, Inc: A \$100 million uncommitted six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, no borrowings were outstanding on the line of credit.

Other subsidiaries of MLPF&S engage in lending and borrowing transactions with Bank of America in the normal course of business. As of December 31, 2018, the subsidiaries of MLPF&S had \$3.9 billion due from Bank of America included in *Loans due from affiliates*.

Agreements with NB Holdings

- MLPF&S: A \$15 billion committed six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$3.4 billion was outstanding on the line of credit.
- MLPF&S: A \$25 billion uncommitted six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$12.4 billion was outstanding on the line of credit.
- MLPCC: A \$7.5 billion committed six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$5.9 billion was outstanding on the line of credit.
- MLPCC: A \$8 billion uncommitted six month revolving senior unsecured line of credit. Interest on the line of credit is based on prevailing short-term market rates. The credit line matures on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, approximately \$1.0 billion was outstanding on the line of credit.

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Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

- BofA Securities, Inc.: Two \$100 million uncommitted six month revolving senior unsecured lines of credit. Interest on the lines of credit are based on prevailing short-term market rates. The credit lines mature on August 1, 2019 and will automatically be extended semi-annually to the succeeding February 1st unless specific actions are taken 180 days prior to the maturity date. At December 31, 2018, no borrowings were outstanding on the lines of credit.

Other subsidiaries of MLPF&S engage in lending transactions with NB Holdings in the normal course of business. As of December 31, 2018, the subsidiaries of MLPF&S had \$38 million due from NB Holdings included in *Loans due from affiliates*.

Refer to Note 10 for information on subordinated borrowings between the Company and Bank of America.

Certain financial advisors are offered cash upfront in the form of an interest-bearing loan. Financial advisors who receive this loan also receive a monthly service incentive payment that equates to the principal and interest due on the loan for as long as they remain with the Company during the loan term. The outstanding loan balance becomes due if employment is terminated before the vesting period. As of December 31, 2018, the Company had loans outstanding from financial advisors of \$1.0 billion, which are not included in the table above but are included in *Interest and other receivables* on the Consolidated Balance Sheet.

4. Trading Activities

The Company's trading activities consist primarily of securities brokerage and trading; derivatives dealing and brokerage; and financing and underwriting services to both affiliated companies and third party clients.

Trading Risk Management

Trading activities subject the Company to market and credit risks. These risks are managed in accordance with Bank of America's established risk management policies and procedures. Bank of America's risk management structure as applicable to the Company is described below.

Global Risk Management is responsible for providing senior management with a clear and comprehensive understanding of the trading risks to which Bank of America (including the Company's sales and trading business) is exposed. These responsibilities include ownership of market risk policy, developing and maintaining quantitative risk models, calculating aggregated risk measures, establishing and monitoring position limits consistent with risk appetite, conducting daily reviews and analysis of trading inventory, approving material risk exposures and fulfilling regulatory requirements.

Bank of America conducts its business operations through a substantial number of subsidiaries. The subsidiaries are established to fulfill a wide range of legal, regulatory, tax, licensing and other requirements. As such, to ensure a consistent application of minimum levels of controls and processes across its subsidiaries, Bank of America has in place a Subsidiary Governance Policy, to which the Company complies. This policy outlines the minimum required governance, controls, management reporting, financial and regulatory reporting, and risk management practices for Bank of America's subsidiaries.

Market Risk

Market risk is the risk that changes in market conditions may adversely impact the value of assets or liabilities.

Trading positions are reported at fair value with changes reflected in income. Trading positions are subject to various changes in market-based risk factors. The majority of this risk is generated by the Company's activities in the interest rate, foreign exchange, credit, equity and commodities markets. The values of assets and liabilities could change due to market liquidity, correlations across markets and expectations of market

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

volatility. The Company seeks to manage these risk exposures by using a variety of techniques that encompass a broad range of financial instruments.

Market Liquidity Risk

Market liquidity risk represents the risk that the level of expected market activity changes dramatically and, in certain cases, may even cease. This exposes the Company to the risk that the Company will not be able to transact business and execute trades in an orderly manner, which may impact results. The impact could be further exacerbated if expected hedging or pricing correlations are compromised by disproportionate demand or lack of demand for certain instruments.

Liquidity Risk

Liquidity Risk is the inability to meet expected or unexpected cash flow and collateral needs while continuing to support the Company's business and customer needs, under a range of economic conditions. The Company's primary liquidity risk management objective is to meet all contractual and contingent financial obligations at all times, including during periods of stress. To achieve that objective, the Company analyzes and monitors its liquidity risk under expected and stressed conditions, maintains excess liquidity and access to diverse funding sources and seeks to align liquidity-related incentives and risks. Excess liquidity is defined as readily available assets, limited to cash and high-quality, liquid, unencumbered securities that the Company can use to meet contractual and contingent financial obligations as those obligations arise. In addition, the Company is supported through committed and uncommitted borrowing arrangements with Bank of America and NB Holdings.

Interest Rate Risk

Interest rate risk represents exposures to instruments whose values vary with the level or volatility of interest rates. These instruments include, but are not limited to, debt securities, certain trading-related assets and liabilities, borrowings and derivatives. Hedging instruments used to mitigate these risks include derivatives such as options, futures, forwards and swaps.

Foreign Exchange Risk

Foreign exchange risk represents exposures to changes in the values of current holdings and future cash flows denominated in currencies other than the U.S. dollar. The types of instruments exposed to this risk include securities, future cash flows in foreign currencies arising from foreign exchange transactions and various foreign exchange derivatives whose values fluctuate with changes in the level or volatility of currency exchange rates or non-U.S. interest rates. Hedging instruments used to mitigate this risk include currency forwards and options.

Equity Market Risk

Equity market risk represents exposures to securities that represent an ownership interest in a corporation in the form of domestic and foreign common stock or other equity-linked instruments. Instruments that would lead to this exposure include, but are not limited to, common stock, equity options and swaps. Hedging instruments used to mitigate this risk include options, futures, swaps, convertible bonds, and cash positions.

Credit Spread Risk

Credit spread risk arises from the possibility that changes in credit spreads will affect the value of financial instruments. Certain instruments are used by the Company to manage this type of risk. Swaps and options, for example, can be designed to mitigate losses due to changes in credit spreads, and the credit downgrade or default of the issuer. Credit risk resulting from default on counterparty obligations is discussed in the *Counterparty Credit Risk* section below.

Mortgages Risk

Mortgage risk represents exposure to changes in the values of mortgage-related instruments due to the Company engaging in market-making activities in a variety of mortgage securities, including pass-through

Merrill Lynch, Pierce, Fenner & Smith Incorporated and Subsidiaries

Notes to Consolidated Balance Sheet

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certificates, commercial mortgages and collateralized mortgage obligations, including collateralized debt obligations using mortgages as underlying collateral. Hedging instruments used to mitigate this risk include derivatives such as options, swaps, futures and forwards, as well as securities including mortgage-backed securities and U.S. Treasury securities.

Counterparty Credit Risk

The Company is exposed to risk of loss if an individual, counterparty or issuer fails to perform its obligations under contractual terms (“default risk”). Both cash instruments and derivatives expose the Company to default risk. Credit risk arising from changes in credit spreads is discussed above.

The Company has established policies and procedures for mitigating counterparty credit risk on principal transactions, including reviewing and establishing limits for credit exposure, maintaining qualifying collateral, purchasing credit protection, and continually assessing the creditworthiness of counterparties.

In the normal course of business, the Company executes, settles, and finances various customer securities transactions. Execution of these transactions includes the purchase and sale of securities by the Company. These activities may expose the Company to default risk arising from the potential that customers or counterparties may fail to satisfy their obligations. In these situations, the Company may be required to purchase or sell financial instruments at unfavorable market prices to satisfy obligations to other customers or counterparties. In addition, the Company seeks to control the risks associated with its customer margin activities by requiring customers to maintain collateral in compliance with regulatory and internal guidelines.

Liabilities to other brokers and dealers related to unsettled transactions (i.e., securities fails to receive) are recorded at the amount for which the securities were purchased, and are paid upon receipt of the securities from other brokers or dealers. In the case of aged securities fails to receive, the Company may purchase the underlying security in the market and seek reimbursement for losses from the counterparty.

Derivatives Default Risk

The Company’s trading derivatives consist of derivatives provided to customers and affiliates and derivatives entered into for trading strategies or risk management purposes. Default risk exposure varies by type of derivative. Default risk on derivatives can occur for the full notional amount of the trade where a final exchange of principal takes place, as may be the case for currency swaps. Swap agreements and forward contracts are generally OTC-transacted and thus are exposed to default risk to the extent of their replacement cost. Since futures contracts are exchange-traded and usually require daily cash settlement, the related risk of loss is generally limited to a one-day net positive change in fair value. Generally such receivables and payables are recorded in customers’ receivables and payables on the Consolidated Balance Sheet. Option contracts can be exchange-traded or OTC. Purchased options have default risk to the extent of their replacement cost. Written options represent a potential obligation to counterparties and typically do not subject the Company to default risk except under circumstances where the option premium is being financed or in cases where the Company is required to post collateral. Refer to Note 6 for further information on credit risk management related to derivatives.

Concentrations of Credit Risk

The Company’s exposure to credit risk (both default and credit spread) associated with its trading and other activities is measured on an individual counterparty basis, as well as by groups of counterparties that share similar attributes. Concentrations of credit risk can be affected by changes in political, industry, or economic factors. To reduce the potential for risk concentration, credit limits are established and monitored in light of changing counterparty and market conditions.

In the normal course of business, the Company purchases, sells, underwrites, and makes markets in non-investment grade instruments. These activities expose the Company to a higher degree of credit risk than is

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Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

associated with trading, investing in, and underwriting investment grade instruments and extending credit to investment grade counterparties.

Concentration of Risk to the U.S. Government and its Agencies

At December 31, 2018, the Company had exposure to the U.S. Government and its agencies. This concentration consists of both direct and indirect exposures. Direct exposure, which primarily includes trading asset positions in instruments issued or guaranteed by the U.S. Government and its agencies, amounted to \$68.1 billion at December 31, 2018. The Company's indirect exposure results from maintaining U.S. Government and agencies securities as collateral for resale agreements and securities borrowed transactions. The Company's direct credit exposure on these transactions is with the counterparty; thus the Company has credit exposure to the U.S. Government and its agencies only in the event of the counterparty's default. Securities issued by the U.S. Government or its agencies held as collateral for resale agreements and securities borrowed transactions at December 31, 2018 totaled \$107.5 billion, of which \$28.3 billion was from affiliated companies.

Industry Concentration Risk

The Company's primary industry credit concentration is with financial institutions, including affiliates, which arises in the normal course of the Company's brokerage, trading, financing, and underwriting activities. Financial institutions include other brokers and dealers, commercial banks, financing companies, insurance companies, and investment companies.

5. Fair Value Accounting

Fair Value Hierarchy

In accordance with Fair Value Accounting, the Company has categorized its financial instruments, based on the priority of the inputs to the valuation technique, into a three-level fair value hierarchy.

The fair value hierarchy gives the highest priority to quoted prices in active markets for identical assets or liabilities (Level 1) and the lowest priority to unobservable inputs (Level 3).

Financial assets and liabilities recorded on the Consolidated Balance Sheet are categorized based on the inputs to the valuation techniques as follows:

- Level 1. Financial assets and liabilities whose values are based on unadjusted quoted prices for identical assets or liabilities in an active market that the Company has the ability to access.
- Level 2. Financial assets and liabilities whose values are based on quoted prices in markets that are not active or model inputs that are observable either directly or indirectly for substantially the full term of the asset or liability. Level 2 inputs include the following:
 - a. Quoted prices for similar assets or liabilities in active markets;
 - b. Quoted prices for identical or similar assets or liabilities in non-active markets;
 - c. Pricing models whose inputs are observable for substantially the full term of the asset or liability; and
 - d. Pricing models whose inputs are derived principally from or corroborated by observable market data through correlation or other means for substantially the full term of the asset or liability.
- Level 3. Financial assets and liabilities whose values are based on prices or valuation techniques that require inputs that are both unobservable and significant to the overall fair value measurement. These inputs

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Notes to Consolidated Balance Sheet

For the Year Ended December 31, 2018

reflect management's view about the assumptions a market participant would use in pricing the asset or liability.

As required by Fair Value Accounting, when the inputs used to measure fair value fall within different levels of the hierarchy, the level within which the fair value measurement is categorized is based on the lowest level input that is significant to the fair value measurement in its entirety. For example, a Level 3 fair value measurement may include inputs that are observable (Level 1 and 2) and unobservable (Level 3).

A review of fair value hierarchy classifications is conducted on a quarterly basis. Changes in the observability or significance of valuation inputs may result in a reclassification for certain financial assets or liabilities. Transfers into or out of fair value hierarchy classifications are made if the significant inputs used in the financial models measuring the fair values of the assets and liabilities became unobservable or observable in the current market place.

Valuation Techniques

The following sections outline the valuation methodologies for the Company's material categories of assets and liabilities. While the Company believes its valuation methods are appropriate and consistent with other market participants, the use of different methodologies or assumptions to determine the fair value of certain financial instruments could result in a different estimate of fair value at the reporting date.

During 2018, there were no changes to valuation approaches or techniques that had, or are expected to have, a material impact on the Company's Consolidated Balance Sheet.

U.S. Treasury and government agencies

U.S. Treasury securities: U.S. Treasury securities are valued using quoted market prices and are generally classified as Level 1 in the fair value hierarchy.

U.S. government agency securities: U.S. government agency securities are comprised of two main categories, consisting of agency issued debt and agency mortgage-backed securities. The fair value of agency issued debt securities is derived using market prices and recent trade activity gathered from independent dealer pricing services or brokers. Generally, the fair value of agency mortgage-backed securities is based on market prices of comparable securities. Agency issued debt securities and agency mortgage-backed securities are generally classified as Level 2 in the fair value hierarchy.

Municipal debt

Municipal bonds: The fair value of municipal bonds is calculated using recent trade activity, market price quotations and new issuance levels. In the absence of this information, fair value is calculated using comparable bond credit spreads. Current interest rates, credit events, and individual bond characteristics such as coupon, call features, maturity, and revenue purpose are considered in the valuation process. The majority of these bonds are classified as Level 2 in the fair value hierarchy.

Auction Rate Securities ("ARS"): The Company holds investments in municipal ARS. Municipal ARS are issued by states and municipalities for a wide variety of purposes, including but not limited to healthcare, industrial development, education and transportation infrastructure. The fair value of the municipal ARS is calculated based upon duration and spread assumptions. Recent trades and issuer tenders are considered in the valuations. Municipal ARS are primarily classified as Level 2 or 3 in the fair value hierarchy.

Corporate debt

Corporate bonds: Corporate bonds are valued based on either the most recent observable trade and/or external quotes, depending on availability. The most recent observable trade price is given highest priority as the valuation benchmark based on an evaluation of transaction date, size, frequency, and bid-offer. This price may

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Notes to Consolidated Balance Sheet

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be adjusted by bond or credit default swap (“CDS”) spread movement. When credit default swap spreads are referenced, cash-to-synthetic basis magnitude and movement as well as maturity matching are incorporated into the value. When neither external quotes nor a recent trade is available, the bonds are valued using a discounted cash flow approach based on risk parameters of comparable securities. In such cases, the potential pricing difference in spread and/or price terms with the traded comparable is considered. The majority of corporate bonds are classified as Level 2 in the fair value hierarchy.

Mortgages, mortgage-backed and asset-backed

Residential Mortgage-Backed Securities (“RMBS”), Commercial Mortgage-Backed Securities (“CMBS”), and other Asset-Backed Securities (“ABS”): RMBS, CMBS and other ABS are valued based on observable price or credit spreads for the particular security, or when price or credit spreads are not observable, the valuation is based on prices of comparable bonds or the present value of expected future cash flows. Valuation levels of RMBS and CMBS indices are used as an additional data point for benchmarking purposes or to price outright index positions.

When estimating the fair value based upon the present value of expected future cash flows, the Company uses its best estimate of the key assumptions, including forecasted credit losses, prepayment rates, forward yield curves and discount rates commensurate with the risks involved, while also taking into account performance of the underlying collateral.

RMBS, CMBS and other ABS are classified as Level 3 in the fair value hierarchy if external prices or credit spreads are unobservable or if comparable trades/assets involve significant subjectivity related to property type differences, cash flows, performance and other inputs, otherwise, they are classified as Level 2 in the fair value hierarchy.

CDOs: CDOs are valued based on observable price levels if available. When prices are not available, the fair value is primarily estimated based upon the present value of expected future cash flows. The Company uses its best estimate of the key assumptions, including forecasted credit losses, prepayment rates, forward yield curves and discount rates commensurate with credit, liquidity and other risks involved, while also taking into account performance of the underlying collateral, differences in legal structure and liquidation rights. CDOs are primarily classified as either Level 2 or Level 3 in the fair value hierarchy.

Equities

Exchange-traded equity securities: Exchange-traded equity securities are generally valued based on quoted prices from the exchange. These securities are classified as either Level 1 or Level 2 in the fair value hierarchy, primarily based on the exchange on which they are traded.

Convertible debentures: Convertible debentures are valued based on observable trades and/or external quotes, depending on availability. When neither observable trades nor external quotes are available, the instrument may be valued based on comparable securities. In such cases, the potential pricing difference in spread and/or price terms with the traded comparable is considered. Convertible debentures are generally classified as Level 2 in the fair value hierarchy.

Derivative contracts

Listed Derivative Contracts: Listed derivatives that are actively traded are generally valued based on quoted prices from the exchange and where appropriate may be classified as Level 1 in the fair value hierarchy. Listed derivatives that are not actively traded are valued using the same approaches as those applied to OTC derivatives; they are generally classified as Level 2 in the fair value hierarchy.

OTC Derivative Contracts: OTC derivative contracts include forwards, swaps and options related to interest rate, foreign currency, credit, equity or commodity underlyings.

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The fair values of derivative assets and liabilities traded in the OTC market are determined using quantitative models that utilize multiple market inputs, including interest rates, prices and indices to generate continuous yield or pricing curves and volatility factors to value the position. The majority of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services. When third-party pricing services are used, the methods and assumptions are reviewed by the Company. Estimation risk is greater for derivative asset and liability positions that are either option-based or have longer maturity dates where observable market inputs are less readily available, or are unobservable, in which case, quantitative-based extrapolations of rate, price or index scenarios are used in determining fair values. The fair values of derivative assets and liabilities include adjustments for market liquidity, counterparty credit quality and other instrument-specific factors, where appropriate. In addition, the Company incorporates within its fair value measurements of OTC derivatives a valuation adjustment to reflect the credit risk associated with the net position. Positions are netted by counterparty, and fair value for net long exposures is adjusted for counterparty credit risk while the fair value for net short exposures is adjusted for the Company's own credit risk. The Company also incorporates FVA within its fair value measurements to include funding costs on uncollateralized derivatives and derivatives where the Company is not permitted to use the collateral it receives. An estimate of severity of loss is also used in the determination of fair value, primarily based on market data. The majority of OTC derivative contracts are classified as Level 2 in the fair value hierarchy.

OTC derivative contracts that do not have readily observable market based pricing parameters are classified as Level 3 in the fair value hierarchy. Examples of derivative contracts classified within Level 3 include contractual obligations that have tenures that extend beyond periods in which inputs to the model would be observable, exotic derivatives with significant inputs into a valuation model that are less transparent in the market and certain CDS referenced to mortgage-backed securities.

Securities Financing Transactions

The fair values of certain resale agreements, repurchase agreements and securities borrowed transactions are determined using quantitative models, including discounted cash flow models that require the use of multiple market inputs, including interest rates and spreads, to generate continuous yield or pricing curves and volatility factors. The majority of market inputs are actively quoted and can be validated through external sources, including brokers, market transactions and third-party pricing services. Securities financing transactions for which the fair value option has been elected are classified as Level 2 in the fair value hierarchy.

Interest and Other Liabilities

Interest and other liabilities primarily consist of short term borrowings and debt of certain consolidated VIEs. Short-term borrowings represent floating rate certificates of consolidated municipal bond trusts that can be tendered by the certificate holders at par with as little as seven days notice. These certificates predominantly carry interest rates that reset on a weekly basis. Due to the short-term nature and given the embedded put feature, these instruments are marked at par. Short-term borrowings are classified as Level 2 in the fair value hierarchy.

The fair value of the debt of certain consolidated securitization and securitization vehicles is determined based upon observable trades and/or external quotes, depending on availability, and is primarily classified as Level 2 or 3 in the fair value hierarchy. The following table presents the Company's fair value hierarchy for those assets and liabilities measured at fair value on a recurring basis as of December 31, 2018:

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For the Year Ended December 31, 2018

(dollars in millions)

	Fair Value Measurements on a Recurring Basis				
	Level 1	Level 2	Level 3	Netting Adj (1)	Total
Assets:					
Securities segregated for regulatory purposes or deposited with clearing organizations:					
U.S. Treasury and government agencies	\$ 14,067	\$ -	\$ -	\$ -	\$ 14,067
Total securities segregated for regulatory purposes or deposited with clearing organizations	<u>14,067</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>14,067</u>
Receivables under resale agreements	-	21,577	-	-	21,577
Trading assets, excluding derivative contracts:					
U.S. Treasury and government agencies	33,081	20,969	-	-	54,050
Equities and convertible debentures	10,765	1,554	22	-	12,341
Corporate debt	-	3,959	99	-	4,058
Municipals, money markets and other	-	5,944	13	-	5,957
Mortgages, mortgage-backed and asset-backed	-	4,974	850	-	5,824
Preferred stock	-	30	120	-	150
Total trading assets, excluding derivative contracts	<u>43,846</u>	<u>37,430</u>	<u>1,104</u>	<u>-</u>	<u>82,380</u>
Derivative contracts	4,194	9,131	-	(11,212)	2,113
Securities received as collateral	14,757	1,616	-	-	16,373
Other assets	8	-	3	-	11
Liabilities:					
Payables under repurchase agreements	-	400	-	-	400
Trading liabilities, excluding derivative contracts:					
U.S. Treasury and government agencies	7,346	761	-	-	8,107
Equities and convertible debentures	4,690	113	-	-	4,803
Corporate debt	-	2,855	-	-	2,855
Mortgages, mortgage-backed, and asset-backed and other	-	109	18	-	127
Preferred stock	-	4	-	-	4
Total trading liabilities, excluding derivative contracts	<u>12,036</u>	<u>3,842</u>	<u>18</u>	<u>-</u>	<u>15,896</u>
Derivative contracts	3,975	10,224	-	(11,880)	2,319
Obligation to return securities received as collateral	17,783	1,683	-	-	19,466
Interest and other	-	786	19	-	805

(1) Represents counterparty and cash collateral netting.

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For the Year Ended December 31, 2018

Level 3 Significant Inputs

The following table presents information about significant unobservable inputs related to the Company's material categories of Level 3 financial assets and liabilities as of December 31, 2018:

Quantitative Information about Level 3 Fair Value Measurements

(dollars in millions)

Financial Instrument	Fair Value	Valuation Techniques	Inputs		Weighted Average ⁽¹⁾
			Significant Unobservable Inputs	Ranges of Inputs	
Instruments backed by residential real estate assets	\$ 394	Discounted cash flow	Yield	0% to 25%	11%
Trading assets - Mortgages, mortgage-backed and asset-backed	394	Market comparables			
Instruments backed by commercial real estate assets	\$ 82	Discounted cash flow	Yield	0% to 25%	8%
Trading assets - Mortgages, mortgage-backed and asset-backed	82	Market comparables	Price	\$0 to \$101	\$85
Corporate loans, debt securities and other	\$ 462	Discounted cash flow	Yield	4% to 14%	10%
Trading assets - Corporate Debt	80		Prepayment Speed	20%	N/A
Trading assets - Mortgages, mortgage-backed and asset-backed	374		Default Rates	3% to 4%	4%
Trading assets - Preferred Stock	8		Loss Severity	35%	N/A
			Price	\$0 to \$137	\$59
Auction Rate Securities	\$ 131	Discounted cash flow	Price	\$10 to \$83	\$70
Trading assets - Preferred Stock	112	Market comparables			
Trading assets - Corporate Debt	19				

⁽¹⁾ The weighted average is calculated based upon the fair value of the instruments.

Level 3 instruments backed by residential and commercial real estate assets include RMBS and mortgage CDOs. Corporate loans, debt securities and other include corporate CLOs and CDOs, corporate bonds and securities backed by non-real estate assets. Auction rate securities include investments in trusts that consist of preferred shares issued by financial institutions.

The Company uses multiple market approaches in valuing certain of its Level 3 financial instruments. For example, market comparables and discounted cash flows are used together. For a given product, such as corporate debt securities, market comparables may be used to estimate some of the unobservable inputs and then these inputs are incorporated into a discounted cash flow model. Therefore, the balances disclosed encompass both of these techniques.

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The level of aggregation and diversity within the products disclosed in the table above results in certain ranges of inputs being wide and unevenly distributed across asset and liability categories.

Uncertainty of Fair Value Measurements from Unobservable Inputs

A significant increase in market yields, default rates or loss severities would have resulted in a significantly lower fair value for long positions. Short positions would have been impacted in a directionally opposite way. The impact of changes in prepayment speeds would have resulted in differing impacts depending on the seniority of the instrument and, in the case of CLOs, whether prepayments can be reinvested.

A significant increase in price would have resulted in a significantly higher fair value for long positions, and short positions would have been impacted in a directionally opposite way.

Fair Value Option Election

The fair value option election allows companies to irrevocably elect fair value as the initial and subsequent measurement attribute for certain financial assets and liabilities. The fair value option election is permitted on an instrument by instrument basis at initial recognition of an asset or liability or upon an event that gives rise to a new basis of accounting for that instrument. As discussed above, certain of the Company's financial instruments are required to be accounted for at fair value under Derivatives Accounting, as well as industry level guidance. For certain financial instruments that are not accounted for at fair value under other applicable accounting guidance, the fair value option election has been made.

The Company elected the fair value option for certain resale and repurchase agreements. The fair value option election was made based on the tenor of the resale and repurchase agreements, which reflect the magnitude of the interest rate risk. The majority of resale and repurchase agreements are collateralized by U.S. Government securities and were excluded from the fair value option election as these contracts are generally short-dated and therefore the interest rate risk is not considered significant. Amounts loaned under resale agreements require collateral with a market value equal to or in excess of the principal amount loaned resulting in minimal credit risk for such transactions.

The Company elected the fair value option for borrowings and for other liabilities issued by various consolidated vehicles where the assets are also carried at fair value.

For the year ended December 31, 2018, the difference between fair value and the aggregate contractual principal amount of resale and repurchase agreements and interest and other liabilities for which the fair value option has been elected was not material to the Consolidated Balance Sheet.

6. Derivatives

Derivatives Accounting establishes accounting and reporting standards for derivative instruments. Derivatives Accounting requires that an entity recognize all derivatives as either assets or liabilities and measure those instruments at fair value. The fair value of all derivatives and associated cash collateral is recorded on a net-by-counterparty basis on the Consolidated Balance Sheet where the Company believes a legal right of offset exists under an enforceable master netting agreement. All derivatives are reported on the Consolidated Balance

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Sheet as trading assets and liabilities. The Company enters into derivatives to facilitate client transactions, for trading and financing purposes, and to manage risk exposures arising from trading assets and liabilities.

Derivative Balances by Primary Risk

Derivative instruments contain numerous market risks. In particular, most derivatives have interest rate risk, as they contain an element of financing risk that is affected by changes in interest rates. Additionally, derivatives expose the Company to counterparty credit risk, although this is generally mitigated by collateral margining and netting arrangements. For disclosure purposes below, the primary risk of a derivative is largely determined by the business that is engaging in the derivative activity. For instance, a derivative that is initiated by an equities derivative business will generally have equity price risk as its primary underlying market risk and is classified as such for the purposes of this disclosure, despite the fact that there may be other market risks that affect the value of the instrument.

The following table identifies the primary risk for derivative instruments at December 31, 2018. The primary risk balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements and have been reduced by the cash collateral received or paid.

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(dollars in millions)

	Contract/ Notional ⁽¹⁾	Derivative Assets Total ⁽²⁾	Derivative Liabilities Total ⁽²⁾
Interest rate contracts			
Swaps	24,785	74	168
Futures and forwards	1,013,343	4,477	4,824
Purchased options	4,910	38	-
Written options	4,074	-	8
Equity contracts			
Swaps	55,905	1,084	1,944
Futures and forwards	13,424	21	34
Purchased options	233,022	7,576	-
Written options	238,353	-	7,160
Foreign exchange contracts			
Futures and forwards	660	27	14
Credit derivatives ⁽³⁾			
Purchased credit derivatives			
Credit default swaps	764	23	13
Total return swaps/other	352	1	6
Written credit derivatives			
Credit default swaps	400	4	28
Total gross derivative asset/liabilities	<u>\$ 1,589,992</u>	<u>\$ 13,325</u>	<u>\$ 14,199</u>
Less: Legally enforceable master netting agreements	-	(11,211)	(11,211)
Less: Cash collateral received/paid	-	(1)	(669)
Total derivative assets and liabilities	<u>\$ 1,589,992</u>	<u>\$ 2,113</u>	<u>\$ 2,319</u>

(1) Represents the total contract/notional amount of derivative assets and liabilities outstanding.

(2) The amounts in the table above include both third party and affiliate trading derivatives. At December 31, 2018, the Company had gross derivative assets with affiliates of \$1.3 billion with legally enforceable netting with affiliates of \$1.3 billion. At December 31, 2018, the Company had gross derivative liabilities with affiliates of \$2.2 billion, legally enforceable netting with affiliates of \$1.3 billion, and cash collateral paid to affiliates of \$668 million. At December 31, 2018, affiliate gross notional was \$88.2 billion.

(3) The net derivative liability and notional amount of written credit derivatives for which the Company held purchased credit derivatives with identical underlying referenced names were \$1 million and \$203 million, respectively, at December 31, 2018.

Offsetting of Derivatives

The Company enters into International Swaps and Derivatives Association, Inc. (“ISDA”) master netting agreements or similar agreements with substantially all of its derivative counterparties. Where legally enforceable, these master netting agreements give the Company, in the event of default by the counterparty, the right to liquidate securities held as collateral and to offset receivables and payables with the same counterparty. For purposes of the Consolidated Balance Sheet, the Company offsets derivative assets and

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liabilities and cash collateral held with the same counterparty where it has such a legally enforceable master netting agreement.

The following table presents derivative instruments included in derivative trading assets and liabilities on the Company's Consolidated Balance Sheet at December 31, 2018 by primary risk (e.g., interest rate risk) and the platform, where applicable, on which these derivatives are transacted. Exchange-traded derivatives include listed options transacted on an exchange. Over-the-counter derivatives include bilateral transactions between the Company and a particular counterparty. Over-the-counter cleared derivatives include bilateral transactions between the Company and a counterparty where the transaction is cleared through a clearinghouse.

Balances are presented on a gross basis, prior to the application of counterparty and cash collateral netting. Total gross derivative assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements, which includes reducing the balance for counterparty netting and the cash collateral received or paid.

Other gross derivative assets and liabilities in the table represent derivatives entered into under master netting agreements where uncertainty exists as to the enforceability of these agreements under bankruptcy laws in some countries or industries and, accordingly, receivables and payables with counterparties in these countries or industries are reported on a gross basis.

For information on the offsetting of securities financing agreements, see Note 7.

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Offsetting of Derivatives

(dollars in millions)

	December 31, 2018	
	Trading Assets - Derivative Contracts	Trading Liabilities - Derivative Contracts
Interest rate contracts		
Over-the-counter	\$ 1,297	\$ 1,973
Over-the-counter cleared	2,430	1,896
Equity contracts		
Over-the-counter	1,121	1,991
Exchange-traded	7,560	7,140
Credit derivatives		
Over-the-counter	28	47
Foreign exchange contracts		
Over-the-counter	6	9
Gross derivative assets/liabilities, before netting		
Over-the-counter	\$ 2,452	\$ 4,020
Over-the-counter cleared	2,430	1,896
Exchange-traded	7,560	7,140
Less: Legally enforceable master netting agreements		
Over-the-counter	(2,189)	(2,189)
Over-the-counter cleared	(1,890)	(1,890)
Exchange-traded	(7,132)	(7,132)
Less: Cash collateral received/paid		
Over-the-counter	(1)	(669)
Derivative assets/liabilities, after netting	1,230	1,176
Other gross derivative assets/liabilities	883	1,143
Total net derivative assets/liabilities	\$ 2,113	\$ 2,319

Credit Derivatives

The Company enters into credit derivatives primarily to facilitate client transactions and to manage credit risk exposures. Credit derivatives derive value based on an underlying third party referenced obligation or a portfolio of referenced obligations. The Company is both a seller and a buyer of credit protection. A seller of credit protection is required to make payments to a buyer upon the occurrence of a predefined credit event. Such credit events generally include bankruptcy of the referenced credit entity and failure to pay under their credit obligations, as well as acceleration of indebtedness and payment repudiation or moratorium. For credit derivatives based on a portfolio of referenced credits or credit indices, the Company as a seller of credit protection may not be required to make payment until a specified amount of loss has occurred and/or may only be required to make payment up to a specified amount.

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Credit derivatives where the Company is the seller of credit protection and their expiration are summarized below. These instruments are classified as investment and non-investment grade based on the credit quality of the underlying referenced obligation. The Company considers ratings of BBB- or higher as investment grade. Non-investment grade includes non-rated credit derivative instruments. The Company discloses internal categorizations of investment grade and non-investment grade consistent with how risk is managed for these investments.

(dollars in millions)

	Maximum Payout/ Notional	Less than 1 Year	1 - 3 Years	3 - 5 Years	Over 5 Years	Carrying Value⁽¹⁾
Derivative Contracts:						
Credit derivatives:						
Investment grade ⁽²⁾	\$ 97	\$ -	\$ 95	\$ 2	\$ -	\$ 5
Non-investment grade ⁽²⁾	<u>303</u>	<u>-</u>	<u>24</u>	<u>31</u>	<u>248</u>	<u>23</u>
Total credit derivatives	\$ 400	\$ -	\$ 119	\$ 33	\$ 248	\$ 28
Credit related notes:						
Investment grade ⁽²⁾	\$ 295	\$ -	\$ -	\$ 3	\$ 292	\$ 295
Non-investment grade ⁽²⁾	<u>764</u>	<u>-</u>	<u>-</u>	<u>-</u>	<u>764</u>	<u>764</u>
Total credit related notes	\$ 1,059	\$ -	\$ -	\$ 3	\$ 1,056	\$ 1,059
Total derivative contracts	<u>\$ 1,459</u>	<u>\$ -</u>	<u>\$ 119</u>	<u>\$ 36</u>	<u>\$ 1,304</u>	<u>\$ 1,087</u>

(1) Derivative contracts are shown on a gross basis prior to counterparty and cash collateral netting.

(2) Refers to the creditworthiness of the underlying reference obligations.

For most credit derivatives, the notional value represents the maximum amount payable by the Company as a seller of credit protection. However, the Company does not monitor its exposure to credit derivatives based solely on notional amount because this measure does not take into consideration the probability of occurrence. As such, the notional amount is not a reliable indicator of the Company's exposure to these contracts. Instead, a risk framework is used to define risk tolerances and establish limits to help to ensure that certain credit risk-related losses occur within acceptable, predefined limits.

Credit Related Notes

Credit related notes in the table above include investments in securities issued by CDO, CLO and credit-linked note vehicles. These instruments are classified as trading assets.

The carrying value of these instruments equals the Company's maximum exposure to loss. The Company is not obligated to make any payments to the entities under the terms of the securities owned.

Credit Risk Management of Derivatives

The Company defines counterparty credit risk as the potential for loss that can occur as a result of an individual, counterparty, or issuer being unable to honor its contractual obligations. The Company mitigates its credit risk to counterparties through a variety of techniques, including, where appropriate, the right to require initial

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collateral or margin, the right to terminate transactions or to obtain collateral should unfavorable events occur, the right to call for collateral when certain exposure thresholds are exceeded, the right to call for third party guarantees, and the purchase of credit default protection.

The Company enters into ISDA master netting agreements or similar agreements with substantially all of its derivative counterparties. Netting agreements are generally negotiated bilaterally and can require complex terms. While the Company makes reasonable efforts to execute such agreements, it is possible that a counterparty may be unwilling to sign such an agreement and, as a result, would subject the Company to additional credit risk. The enforceability of master netting agreements under bankruptcy laws in certain countries or in certain industries is not free from doubt, and receivables and payables with counterparties in these countries or industries are accordingly recorded on a gross basis.

The performance of certain of the Company's derivative transactions has been guaranteed by Bank of America.

Credit-related contingent features

Certain of the Company's derivative contracts contain credit risk related contingent features, primarily in the form of ISDA master netting agreements and credit support documentation that enhance the creditworthiness of these instruments compared to other obligations of the respective counterparty with whom the Company has transacted. These contingent features may be for the benefit of the Company as well as its counterparties with respect to changes in the Company's creditworthiness, and the exposure under the derivative transactions. In the normal course of business under derivative agreements, at December 31, 2018 the Company held cash collateral of \$33 million that was received from affiliates, and posted cash and securities collateral of \$1.5 billion, which was predominately with affiliates.

At December 31, 2018, the amount of collateral, calculated based on the terms of the contracts that the Company could be required to post to counterparties but had not yet posted, was approximately \$258 million, of which \$250 million was to affiliates.

7. Securities Financing Transactions

The Company enters into securities financing transactions to meet customers' needs and to earn residual interest rate spreads, obtain securities for settlement and finance trading inventory positions.

Under these transactions, the Company either receives or provides collateral, including U.S. Treasury and government agency securities, non-U.S. government securities, asset-backed, corporate debt, and equity securities. The Company receives collateral in connection with resale agreements, securities borrowed transactions, customer margin loans, and other loans. Under most agreements the Company is permitted to sell or repledge the securities received (e.g., use the securities to secure repurchase agreements, enter into securities lending transactions or deliver to counterparties to cover short positions). At December 31, 2018, the fair value of securities received as collateral where the Company is permitted to sell or repledge the securities was \$354.7 billion, of which \$46.3 billion was received from affiliated companies. The fair value of securities received as collateral that had been sold or repledged was \$292.0 billion, of which \$40.5 billion have been sold or repledged to affiliated companies.

Additionally, the Company receives securities as collateral in connection with certain securities transactions in which the Company is the lender. In instances where the Company is permitted to sell or repledge securities received, the Company reports the fair value of such securities received as collateral and the obligation to return securities received as collateral in the Consolidated Balance Sheet. In certain instances, position netting may be applied to the securities received as collateral.

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The Company pledges assets which are included in trading assets to collateralize repurchase agreements and other secured financings. Pledged securities that can be sold or repledged by the secured party are parenthetically disclosed in *Trading assets* on the Consolidated Balance Sheet. The carrying value and classification of securities owned by the Company that have been pledged to counterparties where those counterparties do not have the right to sell or repledge at December 31, 2018 are as follows:

(dollars in millions)

Trading asset category	
U.S. Treasury and government agencies	\$ 31,331
Equities and convertible debentures	3,292
Corporate debt and preferred stock	1,905
Mortgages, mortgage-backed, and asset-backed securities	3,657
Municipals and money markets	1,353
Total	\$ 41,538

At December 31, 2018, securities loaned or pledged to affiliated companies that can be sold or repledged by the affiliated companies was \$0.6 billion. Included in the table above, securities loaned or pledged where the affiliated companies do not have the right to sell or repledge was \$1.1 billion.

In certain cases, the Company has transferred assets to consolidated VIEs where those restricted assets serve as collateral for the interests issued by the VIEs. These assets, which are not included in the table above, are disclosed on the Consolidated Balance Sheet as Assets of Consolidated VIEs. These transactions are also described in Note 8.

Generally, when the Company transfers financial instruments that are not recorded as sales (i.e., secured borrowing transactions), the liability is recorded as either payables under repurchase agreements or payables under securities loaned transactions; however, in instances where the Company transfers financial assets to a consolidated VIE, the liabilities of the consolidated VIE will be reflected in *Interest and Other*. In either case, at the time of transfer, the related liability is equal to the cash received in the transaction. In most cases the lenders in secured borrowing transactions have full recourse to the Company (i.e., recourse beyond the assets pledged).

Offsetting of Securities Financing Agreements

The Company enters into securities financing agreements to accommodate customers (also referred to as “matched-book transactions”), obtain securities to cover short positions, and to finance inventory positions. A significant majority of repurchase and resale activities are transacted under legally enforceable master repurchase agreements that give the Company, in the event of default by the counterparty, the right to liquidate securities held and to offset receivables and payables with the same counterparty. The Company offsets repurchase and resale transactions with the same counterparty on the Company’s Consolidated Balance Sheet where it has such a legally enforceable master netting agreement and the transactions have the same maturity date.

A significant majority of securities borrowing and lending activities are transacted under legally enforceable master securities lending agreements that give the Company, in the event of default by the counterparty, the right to liquidate securities held and to offset receivables and payables with the same counterparty. In certain

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instances, the Company offsets securities borrowing and lending transactions with the same counterparty on the Company's Consolidated Balance Sheet where it has such a legally enforceable master netting agreement and the transactions have the same maturity date.

The tables below present securities financing agreements included on the Company's Consolidated Balance Sheet at December 31, 2018. Balances are presented on a gross basis, prior to the application of counterparty netting. Gross assets and liabilities are adjusted on an aggregate basis to take into consideration the effects of legally enforceable master netting agreements. For information on the offsetting of derivatives, see Note 6.

The "Other" amount in the tables below relates to transactions where the Company acts as the lender in a securities lending agreement and receives securities that can be pledged as collateral or sold.

Gross assets and liabilities include activity where uncertainty exists as to the enforceability of certain master netting agreements under bankruptcy laws in some countries or industries and, accordingly, these are reported on a gross basis.

The column entitled "Financial Instruments" in the tables below includes securities collateral received or pledged under repurchase or securities lending agreements where there is a legally enforceable master netting agreement. These amounts are not offset in the Consolidated Balance Sheet but are shown as a reduction to the net balance sheet amount in the table to derive a net asset or liability. Securities collateral received or pledged where the legal enforceability of the master netting agreements is not certain is not included.

(dollars in millions)

	Assets				
	December 31, 2018				
	Gross Assets	Amounts Offset	Net Balance Sheet Amount	Financial Instruments	Net Asset
Receivables under resale agreements	\$ 144,764	\$ (52,599)	\$ 92,165	\$ (90,041)	\$ 2,124
Receivables under securities borrowed transactions	77,188	-	77,188	(64,571)	12,617
Total	<u>\$ 221,952</u>	<u>\$ (52,599)</u>	<u>\$ 169,353</u>	<u>\$ (154,612)</u>	<u>\$ 14,741</u>
	Liabilities				
	December 31, 2018				
	Gross Liabilities	Amounts Offset	Net Balance Sheet Amount	Financial Instruments	Net Liability
Payables under repurchase agreements	\$ 179,825	\$ (52,599)	\$ 127,226	\$ (120,707)	\$ 6,519
Payables under securities loaned transactions	34,005	-	34,005	(31,388)	2,617
Other	19,466	-	19,466	(19,466)	-
Total	<u>\$ 233,296</u>	<u>\$ (52,599)</u>	<u>\$ 180,697</u>	<u>\$ (171,561)</u>	<u>\$ 9,136</u>

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Payables under Repurchase Agreements and Securities Loaned Transactions Accounted for as Secured Borrowings

The tables below represent payables under repurchase agreements and payables under securities loaned by remaining contractual term to maturity and class of collateral pledged. Included in “Other” are transactions where the Company acts as a lender in a securities lending agreement and receives securities that can be pledged as collateral or sold. Certain agreements contain a right to substitute collateral and/or terminate the agreement prior to maturity at the option of the Company or the counterparty. Such agreements are included in the table below based on the remaining contractual term to maturity.

(dollars in millions)

	December 31, 2018				
	Overnight and Continuous	30 Days or less	After 30 through 90 Days	After 90 days ⁽¹⁾	Total
Payables under repurchase agreements	\$ 110,224	\$ 23,092	\$ 22,228	\$ 24,281	\$ 179,825
Payables under securities loaned	31,543	26	1	2,435	34,005
Other	19,466	-	-	-	19,466
Total	\$ 161,233	\$ 23,118	\$ 22,229	\$ 26,716	\$ 233,296

⁽¹⁾ No agreements have maturities greater than two years.

(dollars in millions)

	December 31, 2018			
	Payables under Repurchase Agreements	Securities Loaned	Other	Total
U.S. Treasury and government agencies	\$ 157,486	\$ -	\$ -	\$ 157,486
Corporate securities and other	6,875	49	239	7,163
Equities	10,447	33,956	19,227	63,630
Non-U.S. sovereign debt	400	-	-	400
Mortgages, mortgage-backed, ABS and Other	4,617	-	-	4,617
Total	\$ 179,825	\$ 34,005	\$ 19,466	\$ 233,296

The Company is required to post collateral with a market value equal to or in excess of the principal amount borrowed under repurchase agreements. For securities loaned transactions, the Company receives collateral in the form of cash, letters of credit or other securities. To help ensure that the market value of the underlying collateral remains sufficient, collateral is generally valued daily and the Company may be required to deposit additional collateral or may receive or return collateral pledged, when appropriate. Repurchase agreements and securities loaned transactions are generally either overnight, continuous (i.e., no stated term) or short term. The Company manages liquidity risks related to these agreements by sourcing funding from a diverse group of counterparties, providing a range of securities collateral and pursuing longer durations, when appropriate.

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8. Securitization and Other Variable Interest Entities

The Company utilizes VIEs in the ordinary course of business to support its own and its customers' financing and investing needs. The Company administers, structures or invests in VIEs, including municipal bond trusts, repackaging vehicles, securitization and resecuritization vehicles, as described in more detail below.

The tables below present the assets and liabilities of consolidated and unconsolidated VIEs in situations where the Company has continuing involvement with transferred assets or if it otherwise has a variable interest in the VIE. The tables also present the Company's maximum exposure to loss resulting from its involvement with consolidated VIEs and unconsolidated VIEs in which the Company holds a variable interest as of December 31, 2018. The Company's maximum loss exposure is based on the unlikely event that all of the assets in the VIEs become worthless and incorporates not only potential losses associated with assets recorded on the Company's Consolidated Balance Sheet but also potential losses associated with off-balance sheet commitments, such as unfunded liquidity commitments and other contractual arrangements, if applicable. The Company's maximum loss exposure does not include losses previously recognized through write-downs of assets.

The Company did not provide financial support to consolidated or unconsolidated VIEs during the year ended December 31, 2018 that it was not previously contractually required to provide, nor does it intend to do so.

The Company invests in mortgage backed vehicles sponsored or managed by third parties, with which it has no other form of involvement. These securities are included in Trading Assets and are not disclosed in the tables below.

Municipal Bond Securitizations

The Company administers municipal bond trusts that primarily hold highly-rated, long-term, fixed-rate municipal bonds. The trusts obtain financing by primarily issuing floating-rate trust certificates that reprice on a frequent basis to third party investors or affiliates. The Company may transfer assets into the trusts and may also serve as remarketing agent for the trusts. The floating-rate trust certificates are subject to tender at specified dates. Should the Company be unable to remarket the tendered certificates, the Company declares a failed remarketing, and has no further obligation to purchase the certificates. The certificate holder tenders the securities to the Tender agent. In certain instances, the Company or an affiliate may have an option to collapse the trusts at any time under certain pre-defined conditions.

The Company's unconsolidated municipal bond trusts have a weighted-average remaining life of 7.4 years at December 31, 2018. There were no material write-downs or downgrades of assets or issuers during 2018.

The following table summarizes select information related to municipal bond trusts as of December 31, 2018.

(dollars in millions)

	Consolidated	Unconsolidated	Total
Maximum Loss Exposure	\$ 401	\$ 26	\$ 427
On-balance sheet assets			
Trading assets	452	26	478
Total Assets	452	26	478
On-balance sheet liabilities			
Interest and other	399	-	399
Total Liabilities	399	-	399
Total assets of VIEs	\$ 452	\$ 2,829	\$ 3,281

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Other VIEs

The following table summarizes certain information related to other VIEs in which the Company holds a variable interest as of December 31, 2018, which primarily include repackaging vehicles, securitization and resecuritization vehicles, mortgage CDOs and commercial mortgage loans.

(dollars in millions)

	Consolidated			Unconsolidated		
	Resecuritization	Other	Total	Resecuritization	Other	Total
Maximum Loss Exposure	\$ 128	\$ 179	\$ 307	\$ 1,419	\$ 4	\$ 1,423
On-balance sheet assets						
Trading assets	366	347	713	1,419	4	1,423
Total Assets	366	347	713	1,419	4	1,423
On-balance sheet liabilities						
Interest and other	238	168	406	-	-	-
Total Liabilities	238	168	406	-	-	-
Total assets of VIEs	\$ 366	\$ 347	\$ 713	\$ 11,283	\$ 76	\$ 11,359

The Company transfers existing securities, typically MBS, into resecuritization vehicles at the request of customers seeking securities with specific characteristics. The Company may also resecuritize securities for purpose of improving liquidity and capital, and managing credit or interest rate risk. Generally, there are no significant ongoing activities performed in a resecuritization trust and no single investor has the unilateral ability to liquidate the trust.

The Company resecuritized \$22.8 billion of securities during the year ended December 31, 2018. Resecuritization proceeds included securities with an initial fair value of \$4.1 billion during the year ended December 31, 2018. Substantially all of the securities received as resecuritization proceeds were classified as trading securities and were categorized as Level 2 within the fair value hierarchy.

Other consolidated VIEs include investments in a CDO vehicle, residential mortgage-backed securitization trusts and a commercial mortgage-backed securitization trust. The CDO vehicle primarily holds CMBS and is funded by issuing multiple tranches of debt securities and is managed by a third-party portfolio manager. The Company is a majority holder of the controlling class of the CDO and, as such, has power to liquidate the entity and its underlying assets. The residential mortgage-backed securitization trusts hold residential first lien mortgages, which have been funded by issuance of debt in the form of mortgage-backed securities. The Company is holder of the residual classes of the residential mortgage-backed securitization trusts and, as such, has power to call the debt issuances of these trusts. The commercial mortgage-backed securitization trust holds commercial and multifamily loans, which have been funded by issuance of debt in the form of mortgage-backed securities. The Company is holder of the entirety of the commercial mortgage-backed securitization trust's debt issuance and, as such, has power over the trust.

Other unconsolidated VIEs include investments in securitization and repackaging vehicles that hold financial instruments such as pools of residential mortgage loans, corporate bonds, or ABS. The Company holds investments in such vehicles and may also enter into derivatives to change the interest rate or currency profile of the issued debt instruments.

The Company's maximum exposure to loss for unconsolidated VIEs is significantly less than the total assets in the table above because the Company typically has exposure to only a portion of the total assets of the VIEs.

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9. Goodwill and Intangible Assets

Refer to Note 2 for the Company's accounting policies for goodwill and intangible assets.

Goodwill

Based on the annual impairment analysis, the Company determined that there was no impairment of goodwill as of the June 30, 2018 test date.

The carrying amount of goodwill was \$3.8 billion at December 31, 2018.

Intangible Assets

Based on the annual impairment analysis, the Company determined that there was no impairment of the Merrill Lynch brand as of the June 30, 2018 test date.

The table below presents the gross carrying amount, accumulated amortization, and net carrying amounts of intangible assets as of December 31, 2018:

(dollars in millions)

Intangible Assets			
Definite Life ⁽¹⁾	Gross carrying amount	\$	2,261
	Accumulated amortization		(2,261)
	Net carrying amount		-
Indefinite Life ⁽²⁾	Gross carrying amount		935
	Accumulated amortization		-
	Net carrying amount		935
Total	Gross carrying amount		3,196
	Accumulated amortization		(2,261)
	Net carrying amount	\$	935

⁽¹⁾ Represents value assigned to customer relationships.

⁽²⁾ Represents value assigned to the Merrill Lynch brand.

10. Subordinated Borrowings and Other Financing

At December 31, 2018, subordinated borrowings and credit committed under agreements with NB Holdings consisted of the following:

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(dollars in millions)

	<u>Maturity</u>	<u>Amount Outstanding</u>	<u>Total Credit Facility</u>
MLPF&S with NB Holdings			
Revolving Subordinated Line of Credit	April 16, 2020	\$ 6,220	\$ 12,000
Cash Equity Subordinated Agreement	April 17, 2020	5,858	5,858
MLPCC with NB Holdings			
Revolving Subordinated Line of Credit	March 5, 2020	2,400	3,000
BofA Securities, Inc. with NB Holdings			
Revolving Subordinated Line of Credit	January 10, 2020	-	100
Total Subordinated Liabilities		<u>\$ 14,478</u>	<u>\$ 20,958</u>

These borrowings, which have been approved for regulatory capital purposes for each respective company, are U.S. dollar-denominated obligations at variable interest rates based on three-month LIBOR plus a market-based spread. MLPF&S', MLPCC's, and BofA Securities, Inc.'s revolving subordinated line of credit agreements contain a provision that automatically extends the loan's maturity by one year unless specified actions are taken 390 days prior to the maturity date.

The Company obtains letters of credit from issuing banks to satisfy various counterparty collateral requirements in lieu of depositing cash or securities collateral. Letters of credit aggregated \$430 million at December 31, 2018.

11. Stockholder's Equity

MLPF&S is authorized to issue 1,200 shares of \$1.00 par value common stock. At December 31, 2018, there were 1,000 shares issued and outstanding.

MLPF&S is authorized to issue 1,000 shares of \$1.00 par value preferred stock. At December 31, 2018, there were no preferred shares issued.

12. Commitments, Contingencies and Guarantees

Litigation and Regulatory Matters

In the ordinary course of business, the Company is occasionally a defendant in or a party to pending and threatened legal actions and proceedings. In view of the inherent difficulty of predicting the outcome of such litigation and regulatory matters, particularly where the claimants seek unspecified or very large or indeterminate damages or where the matters present novel legal theories or involve a large number of parties, the Company cannot predict what the eventual outcome of the pending matters will be, what the timing of the ultimate resolution of these matters will be, or what the eventual loss, fines or penalties related to each pending matter may be.

In accordance with applicable accounting guidance, the Company establishes an accrued liability for litigation and regulatory matters when those matters present loss contingencies that are both probable and estimable. In such cases, there may be an exposure to loss in excess of any amounts accrued. As a matter develops, the Company, in conjunction with any outside counsel handling the matter, evaluates on an ongoing basis whether

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such matter presents a loss contingency that is probable and estimable. Once the loss contingency related to a litigation or regulatory matter is deemed to be both probable and estimable, the Company will establish an accrued liability. The Company continues to monitor the matter for further developments that could affect the amount of the accrued liability that has been previously established.

Commitments

At December 31, 2018, the Company's commitments had the following expirations:

(dollars in millions)

	Total	Commitment expiration			
		Less than 1 year	1– 3 years	3 – 5 years	Over 5 years
Purchasing commitments	\$ 24	\$ 6	\$ 17	\$ -	\$ 1
Operating leases	1,740	317	563	416	444
Loan commitments	1,057	1,057	-	-	-
Other commitments:					
Commitments to enter into repurchase agreements	8,606	8,606	-	-	-
Commitments to enter into resale agreements	19,323	19,323	-	-	-
Commitments to enter into securities lending agreements	106	106	-	-	-
Total	<u>\$ 30,856</u>	<u>\$ 29,415</u>	<u>\$ 580</u>	<u>\$ 416</u>	<u>\$ 445</u>

Purchasing Commitments

The Company has entered into commitments to purchase service contracts with providers of market data, communications, and systems consulting services.

Operating Leases

The Company has entered into various non-cancelable long-term lease agreements for premises that expire through 2032.

Loan Commitments

The Company enters into commitments to extend credit to meet the financing needs of its customers.

Other Commitments

In connection with trading activities, the Company has commitments to enter into resale, repurchase and securities lending agreements.

Guarantees

The Company is a member of various securities and derivative exchanges and clearinghouses, both in the U.S. and in other countries. As a member, the Company may be required to pay a pro-rata share of the losses incurred by some of these organizations as a result of another member's default and under other loss scenarios. The Company's potential obligations may be limited to its membership interests in such exchanges and clearinghouses, to the amount (or multiple) of the Company's contribution to the guarantee fund or, in limited instances, to the full pro-rata share of the residual losses after applying the guarantee fund. The Company's maximum potential exposure under these membership agreements is difficult to estimate; however, the potential for the Company to be required to make these payments is remote.

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In connection with its prime brokerage and clearing businesses, the Company performs securities clearance and settlement services with other brokerage firms and clearinghouses on behalf of its clients. Under these arrangements, the Company stands ready to meet the obligations of its clients with respect to securities transactions. The Company's obligations in this respect are secured by the assets in the clients' accounts and the accounts of their customers as well as by any proceeds received from the transactions cleared and settled by the Company on behalf of clients or their customers. The Company's maximum potential exposure under these arrangements is difficult to estimate; however, the potential for the Company to incur material losses pursuant to these arrangements is remote.

13. Employee Benefit Plans

Bank of America provides pension and other postretirement benefits to its employees worldwide through sponsorship of defined contribution pension, defined benefit pension and other postretirement plans.

The Bank of America Corporation Corporate Benefits Committee has overall responsibility for the administration of these benefit plans.

Bank of America maintains certain qualified retirement and defined contribution plans covering the Company's full-time, salaried employees and certain part-time employees.

The defined benefit pension plans and postretirement benefit plans are accounted for in accordance with ASC 715-20-50, *Compensation – Retirement Benefits, Defined Benefit Plans-General* ("Defined Benefit Plan Accounting"). Postemployment benefits are accounted for in accordance with ASC 712, *Compensation-Nonretirement Postemployment Benefits*. Required disclosures are included in the December 31, 2018 Form 10-K of Bank of America.

Defined Contribution Pension Plans

The U.S. defined contribution plans sponsored by Bank of America include the Merrill Lynch 401 (k) Savings & Investment Plan ("SIP") and the Bank of America 401 (k) Plan. The SIP is closed to new participants with certain exceptions.

Defined Benefit Pension Plans

Certain of the Company's employees are covered by Bank of America's qualified pension plan.

Bank of America has an annuity contract that guarantees the payment of benefits vested under a terminated U.S. pension plan. Bank of America, under a supplemental agreement, may be responsible for, or benefit from, actual experience and investment performance of the annuity assets. Bank of America made no contribution under this agreement for the year ended December 31, 2018. Contributions may be required in the future under this agreement.

Bank of America also maintains non-contributory, nonqualified pension plans (i.e., plans not subject to Title IV of ERISA) that are unfunded and provide supplemental defined benefit pension benefits for certain eligible U.S. employees.

Postretirement Benefits Other Than Pensions

Health insurance benefits are provided to eligible retired employees and dependents through Bank of America sponsored plans. The health care coverage is contributory, with certain retiree contributions adjusted

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periodically. The accounting for costs of health care benefits for most eligible employees anticipates future changes in cost-sharing provisions.

Postemployment Benefits

Bank of America provides certain postemployment benefits for employees on extended leave due to injury, illness, or death and for terminated employees. Eligible employees who are disabled due to non-work related illness or injury are entitled to disability income, medical coverage and life insurance. Severance benefits may be provided to eligible terminated employees under the terms of a severance pay plan. All full-time employees are eligible for severance benefits subject to the terms of the severance pay plan.

14. Employee Incentive Plans

Incentive plans are sponsored by Bank of America. Disclosures required by ASC 718, *Stock Compensation* (“Stock Compensation Accounting”) are included in the December 31, 2018 Form 10-K of Bank of America.

The Company participates in a number of equity compensation plans sponsored by Bank of America, with awards being granted predominantly from the Bank of America Corporation Key Employee Equity Plan (“KEEP”). Under the KEEP, Bank of America grants stock based awards, including restricted stock units (“RSUs”), to eligible employees.

These RSUs will generally vest in one-third increments on each of the first three anniversaries of the grant date, provided that the employee remains continuously employed with the Company during that time.

For stock-based compensation awards granted to retirement-eligible employees, awards are deemed authorized at the beginning of the year preceding the grant date when the incentive award plans are generally approved.

Other Compensation Arrangements

The Company participates in Bank of America sponsored deferred compensation plans in which employees who meet certain minimum compensation thresholds may participate on either a voluntary or mandatory basis. Contributions to the plans are made on a tax-deferred basis by participants. Participants’ returns on these contributions may be indexed to various mutual funds and other funds. The Company also participates in several Bank of America sponsored, cash-based employee award programs, under which certain employees are eligible to receive future cash compensation, generally upon fulfillment of the service and vesting criteria for the particular program. At December 31, 2018, accrued liabilities for these arrangements totaled \$3.5 billion and are recorded in *Compensation and benefits payable* on the Consolidated Balance Sheet.

When appropriate, the Company maintains various investments as an economic hedge of its liabilities to participants under these deferred compensation plans and award programs, including derivative transactions. At December 31, 2018, the Company had such investments totaling \$47 million and a derivative transaction effectively hedging an additional \$3.0 billion of the Company’s liabilities.

The Company also participates in other deferred compensation plans and award programs.

15. Income Taxes

The Tax Act was enacted in 2017 and made significant changes to federal income tax law, including, among other things, reducing the statutory corporate income tax rate to 21 percent from 35 percent. The Company has completed its analysis and accounting under Staff Accounting Bulletin No. 118 for effects of the Tax Act.

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The reconciliation of the beginning UTB balance to the ending balance is presented in the table below.

Reconciliation of the Change in UTBs

(dollars in millions)

Balance at December 31, 2017	\$	106
Increases related to positions taken during prior years		4
Decreases in positions taken during prior years		(7)
Balance at December 31, 2018	\$	103

As of December 31, 2018, the balance of the Company's UTBs which would, if recognized, affect the Company's effective tax rate was \$95 million. Included in the UTB balance are some items, the recognition of which would not affect the effective tax rate, such as the portion of gross state UTBs that would be offset by the tax benefit of the associated federal deduction, and the portion of gross non-U.S. UTBs that would be offset by tax reductions in other jurisdictions.

It is reasonably possible that the UTB balance may decrease by as much as \$29 million during the next 12 months, since resolved items will be removed from the balance whether their resolution results in payment or recognition.

The Company files income tax returns in numerous state, local and non-U.S. jurisdictions each year. The Internal Revenue Service ("IRS") and other tax authorities in states, cities, and countries in which the Company has significant business operations, examine tax returns periodically (continuously in some jurisdictions). The table below summarizes the status of significant tax examinations, by jurisdiction, for the Company as of December 31, 2018.

Jurisdiction	Years Subject to Examination⁽¹⁾	Status at December 31, 2018
U.S. Federal	2012-2013	Appeals
U.S. Federal	2014-2016	Field examination
California	2008-2011	Appeals
California	2012-2014	Field examination
New York	2015	Field examination

⁽¹⁾ All tax years subsequent to the above years remain open to examination.

At December 31, 2018, the Company's accrual for interest and penalties that related to income taxes, net of taxes and remittances, was \$9 million.

Current and deferred income taxes are recorded as income tax receivable and payable due to affiliate, which are included on the Consolidated Balance Sheet within *Interest and other, including loans due from affiliates, Interest and other payables*, and *Loans due to affiliates*. Significant components of the Company's deferred tax assets and liabilities as of December 31, 2018 are presented below.

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(dollars in millions)

Deferred tax assets	
Employee compensation	\$ 1,178
Loss carryforward	371
Securities valuation	88
Accrued expenses	55
Other	70
Gross deferred tax assets	<u>1,762</u>
Valuation allowance	<u>(43)</u>
Total deferred tax assets, net of valuation allowance	<u>1,719</u>
Deferred tax liabilities	
Goodwill and intangibles	<u>454</u>
Gross deferred tax liabilities	<u>454</u>
Net deferred tax asset	<u>\$ 1,265</u>

The table below summarizes the deferred tax assets and the related valuation allowance recognized for the net operating loss and tax credit carryforwards at December 31, 2018.

(dollars in millions)

	Deferred Tax Asset	Valuation Allowance	Net Deferred Tax Asset	First Year Expiring
Net operating losses - U.S.	\$ 181	\$ -	\$ 181	After 2028
Net operating losses - U.S. states ⁽¹⁾	<u>190</u>	<u>(43)</u>	<u>147</u>	Various
Total Loss Carryforwards	<u>\$ 371</u>	<u>\$ (43)</u>	<u>\$ 328</u>	
General business credits	<u>16</u>	<u>-</u>	<u>16</u>	After 2038
Total Tax Credit Carryforwards	<u>\$ 16</u>	<u>\$ -</u>	<u>\$ 16</u>	

⁽¹⁾ Amounts above include capital losses. The losses and related valuation allowances for U.S. states before considering the benefit of federal deductions were \$240 million and \$(54) million, respectively.

Realization of the deferred tax assets above is dependent on the Company's or Bank of America's ability to generate sufficient taxable income prior to their expiration. Management concluded that no valuation allowance was necessary to reduce the U.S. federal NOL and general business credit carryforwards since estimated future taxable income will more-likely-than-not be sufficient to utilize these assets prior to expiration.

At December 31, 2018, the Company had a current income tax payable due to its affiliates of approximately \$0.8 billion as a result of its inclusion in consolidated, combined, and unitary tax return filings with Bank of America as determined under the intercompany tax allocation agreements with Bank of America.

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16. Subsequent Events

ASC 855, *Subsequent Events*, requires the Company to evaluate whether events, occurring after the Balance Sheet date but before the date the Consolidated Balance Sheet is available to be issued, require accounting as of the Balance Sheet date, or disclosure in the Consolidated Balance Sheet. The Company has evaluated such subsequent events through date of issuance.

On January 18, 2019, BofAML Securities, Inc. legally changed its name to BofA Securities, Inc.

In January 2019, BofA Securities, Inc. authorized the issuance of voting preferred shares in anticipation of the migration of the institutional client activity from the Company. BofA Securities, Inc. issued 17 shares of Series A 6.375% non-cumulative preferred stock to NB Holdings for \$1.0 billion. The Series A shares have a par value of \$1 per share, liquidation preference of \$58.6 million and contain the same voting rights as the common stock. Additionally, BofA Securities, Inc. extended the maturity of its subordinated line of credit with NB Holdings to September 16, 2020 and increased the limit to \$1.5 billion and borrowed \$1.0 billion under that line of credit. As a result of these transactions, NB Holdings obtained a controlling interest in BofA Securities, Inc.

In February 2019, the maturities of all of the Company's, MLPCC's, BofA Securities, Inc. and subsidiaries existing revolving senior unsecured lines of credit with NB Holdings and Bank of America were extended to February 1, 2020.

In February 2019, the maturity of MLPCC's revolving subordinated line of credit with NB Holdings was extended to March 5, 2021.

In February 2019, the Company, with FINRA and CME approval, repaid \$1.5 billion of its revolving subordinated line of credit facility.

There were no other material subsequent events which affected the amounts or disclosures in the Consolidated Balance Sheet through February 28, 2019, which is the issuance date of the Consolidated Balance Sheet.

17. Regulatory Requirements

SEC Uniform Net Capital Rule

As a registered broker-dealer and futures commission merchant, MLPF&S is subject to the net capital requirements of Rule 15c3-1 under the Securities Exchange Act of 1934 ("Rule 15c3-1") and CFTC Regulation 1.17. MLPF&S has elected to compute the minimum capital requirement in accordance with the "Alternative Method" as permitted by Rule 15c3-1e.

At December 31, 2018, MLPF&S' regulatory net capital as defined by Rule 15c3-1 and CFTC Regulation 1.17 was \$13.4 billion and exceeded the minimum requirement of \$2.0 billion by \$11.3 billion.

In accordance with the Alternative Method, MLPF&S is required to maintain tentative net capital in excess of \$1 billion, net capital in excess of \$0.5 billion, and notify the SEC in the event its tentative net capital is less than \$5 billion. As of December 31, 2018, MLPF&S had tentative net capital and net capital in excess of the minimum and notification requirements.

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SEC Customer Protection Rule

The Company is also subject to Rule 15c3-3 which requires, under certain circumstances, that cash or securities be deposited into a special reserve bank account for the exclusive benefit of customers. As of December 31, 2018, the Company had \$17.5 billion of U.S. Government securities segregated in the special reserve bank account.

As a clearing broker and in accordance with Rule 15c3-3, the Company computed a reserve requirement for the proprietary accounts of broker dealers (“PAB”). As of December 31, 2018, the Company had \$2.7 billion of U.S. Government securities segregated in a special reserve bank account for such requirement.

Commodity Exchange Act (“CEA”) - Regulated Commodities and Cleared OTC Derivatives

As a futures commission merchant, in accordance with the CEA, the Company is required to segregate and hold in separate accounts all monies, securities, and property received to margin and to guaranty or secure the trades or contracts of customers in regulated commodities and cleared OTC derivatives. As of December 31, 2018, for customers trading on U.S. commodity exchanges, pursuant to Section 4d(2) of the CEA, segregated funds exceeded such requirement by \$358 million. As of December 31, 2018, for customers trading on commodity exchanges located outside of the U.S., pursuant to Regulation 30.7 of the CEA, the Company held funds in separate accounts that exceeded such requirement by \$253 million. As of December 31, 2018, for customers transacting cleared swaps pursuant to Section 4d(f) of the CEA, segregated funds exceeded such requirement by \$326 million.

MLPCC, a fully-guaranteed subsidiary of MLPF&S, is subject to the regulatory requirements promulgated by the SEC or other regulatory and exchange authorities. Net capital and excess net capital at December 31, 2018 as defined by these regulatory authorities was \$4.4 billion and \$3.8 billion, respectively.

MLPCC is subject to the customer and PAB protection requirements of Rule 15c3-3. As of December 31, 2018, MLPCC performed computations for both reserve requirements related to customer and proprietary accounts of brokers.

MLPCC is also subject to the customer protection rules prescribed by the CEA. As of December 31, 2018, MLPCC performed computations for customers trading on U.S. commodity exchanges, pursuant to Section 4d(2) of the CEA.

BofA Securities, Inc., as a Futures Commission Merchant, is subject to the net capital requirements of CFTC Regulation 1.17.