

Discover Financial Services
Form 424B5
January 28, 2019
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**Filed Pursuant to Rule 424(b)(5)
Registration No. 333-225830**

The information in this preliminary prospectus supplement is not complete and may be changed. This preliminary prospectus supplement and the accompanying prospectus are not an offer to sell these securities and we are not soliciting an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to completion

Preliminary Prospectus Supplement dated January 28, 2019

PROSPECTUS SUPPLEMENT

(To Prospectus dated June 22, 2018)

\$

% Senior Notes due

We are offering \$ _____ million aggregate principal amount of _____ % Notes due _____. We will pay interest on the notes on _____ and _____ of each year, beginning _____, 2019 (except for the final interest payment, which will be paid at maturity). The notes will mature on _____, _____. We may redeem the notes at any time on or after _____, _____ (_____ months prior to the maturity date of the notes), in whole or in part, at the redemption price described in Description of the Notes Optional Redemption by Us beginning on page S-12 of this prospectus supplement.

The notes will be our senior unsecured obligations and will rank equally in right of payment with our other existing and future senior unsecured indebtedness. The notes will be effectively subordinated to any of our existing and future secured indebtedness, to the extent of the assets securing that indebtedness, and will be structurally subordinated to all existing and future obligations of our subsidiaries. The notes will be issued only in registered form in minimum denominations of \$2,000 and integral multiples of \$1,000 in excess thereof.

Investing in the notes involves risks that are described in the Risk Factors section beginning on page S-6 of this prospectus supplement, in addition to the risk factors that are incorporated by reference into this prospectus

supplement and the accompanying prospectus.

| | Per Note | Total |
|--------------------------------------|-----------------|--------------|
| Public offering price (1) | % | \$ |
| Underwriting discount | % | \$ |
| Proceeds, before expenses, to us (1) | % | \$ |

(1) Plus accrued interest from _____, 2019, if settlement occurs after that date.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these securities or determined if this prospectus supplement or the accompanying prospectus is truthful or complete. Any representation to the contrary is a criminal offense.

The notes are not savings accounts, deposits or other obligations of a bank and are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other governmental agency or instrumentality.

We do not intend to list the notes on any securities exchange or include the notes in any automated quotation system. Currently, there is no public market for the notes.

The notes will be ready for delivery in book-entry form only through the facilities of The Depository Trust Company for the accounts of its participants, including Euroclear Bank SA/NV and Clearstream Banking, S.A., on or about _____, 2019.

Joint Book-Running Managers

BofA Merrill Lynch

Barclays

Goldman Sachs & Co. LLC

The date of this prospectus supplement is _____, 2019.

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About this Prospectus Supplement

This document is in two parts. The first part is this prospectus supplement, which describes the specific terms of this offering of notes and also adds to and updates information contained in the accompanying prospectus and the documents incorporated by reference into this prospectus supplement and the accompanying prospectus. The second part is the accompanying prospectus, which gives more general information, some of which does not apply to this offering.

If the description of this offering varies between this prospectus supplement and the accompanying prospectus, you should rely on the information contained in this prospectus supplement.

You should rely only on the information contained in or incorporated by reference into this prospectus supplement, the accompanying prospectus or any free writing prospectus filed with the Securities and Exchange Commission, or SEC. We have not, and the underwriters have not, authorized any other person to provide you with different or additional information. If anyone provides you with different or additional information, you should not rely on it. This prospectus supplement may only be used where it is legal to sell these securities. We are not, and the underwriters are not, making an offer of these securities in any state or jurisdiction where the offer is not permitted. You should assume that the information in this prospectus supplement, the accompanying prospectus or any free writing prospectus filed with the SEC is accurate only as of their respective dates. You should assume that any information incorporated by reference into this prospectus supplement or the accompanying prospectus is accurate only as of the date of the document incorporated by reference. Our business, financial condition, results of operations and prospects may have changed since those dates.

Unless the context requires otherwise, each reference in this prospectus supplement to we, us, our, Discover, the Company means Discover Financial Services and its consolidated subsidiaries and each reference to Discover Bank means Discover Bank. DFS

You should not consider any information contained in or incorporated by reference into this prospectus supplement or the accompanying prospectus to be investment, legal or tax advice. You should consult your own counsel, accountant and other advisors for legal, tax, business, financial and related advice regarding the purchase of the notes. We are not making any representation to you regarding the legality of an investment in the notes by you under applicable investment or similar laws.

You should read and consider all information contained in or incorporated by reference into this prospectus supplement and the accompanying prospectus before making your investment decision.

Notice to Prospective Investors in the European Economic Area

None of this prospectus supplement, the accompanying prospectus or any related free writing prospectus is a prospectus for the purposes of the Prospectus Directive (as defined below). This prospectus supplement, the accompanying prospectus and any related free writing prospectus have been prepared on the basis that any offer of notes in any Member State of the European Economic Area which has implemented the Prospectus Directive (each, a Relevant Member State) will be made pursuant to an exemption under the Prospectus Directive from the requirement to publish a prospectus for offers of notes. Accordingly any person making or intending to make an offer in that Relevant Member State of notes which are the subject of the offering contemplated in this prospectus supplement, the accompanying prospectus or any related free writing prospectus may only do so in circumstances in which no obligation arises for Discover Financial Services or any of the underwriters to publish a prospectus pursuant to Article

3 of the Prospectus Directive in relation to such offer. Neither Discover Financial Services nor the underwriters have authorized, nor do they authorize, the making of any offer of notes in circumstances in which an obligation arises for Discover Financial Services or the underwriters to publish a prospectus for such offer. The expression Prospectus Directive means Directive 2003/71/EC (as amended or superseded), and includes any relevant implementing measure in the Relevant Member State.

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Notice to Prospective Investors in the United Kingdom

The communication of this prospectus supplement, the accompanying prospectus, any related free writing prospectus and any other document or materials relating to the issue of the notes offered hereby is not being made, and such documents and/or materials have not been approved, by an authorized person for the purposes of section 21 of the United Kingdom's Financial Services and Markets Act 2000, as amended (the "FSMA"). Accordingly, such documents and/or materials are not being distributed to, and must not be passed on to, the general public in the United Kingdom. The communication of such documents and/or materials as a financial promotion is only being made to those persons in the United Kingdom who have professional experience in matters relating to investments and who fall within the definition of investment professionals (as defined in Article 19(5) of the Financial Services and Markets Act 2000 (Financial Promotion) Order 2005, as amended (the "Financial Promotion Order")), or who fall within Article 49(2)(a) to (d) of the Financial Promotion Order, or who are any other persons to whom it may otherwise lawfully be made under the Financial Promotion Order (all such persons together being referred to as "relevant persons"). In the United Kingdom, the notes offered hereby are only available to, and any investment or investment activity to which this prospectus supplement, the accompanying prospectus and any related free writing prospectus relates will be engaged in only with, relevant persons. Any person in the United Kingdom that is not a relevant person should not act or rely on this prospectus supplement, the accompanying prospectus or any related free writing prospectus or any of their contents.

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Summary

The following summary includes basic information about our company and this offering. It may not contain all of the information that is important to you. For a more complete understanding of our company and this offering, we encourage you to read this entire prospectus supplement and the accompanying prospectus carefully, including the documents incorporated by reference herein and therein.

Discover Financial Services

Discover Financial Services (DFS) is a direct banking and payment services company. DFS is a bank holding company under the Bank Holding Company Act of 1956 as well as a financial holding company under the Gramm-Leach-Bliley Act and therefore is subject to oversight, regulation and examination by the Board of Governors of the Federal Reserve System. DFS provides direct banking products and services and payment services through its subsidiaries. DFS offers its customers credit card loans, private student loans, personal loans, home equity loans and deposit products. DFS had \$87 billion in loan receivables and \$43 billion in deposits issued through direct-to-consumer channels and affinity relationships at September 30, 2018. DFS also operates the Discover Network, the PULSE network (PULSE) and Diners Club International (Diners Club). The Discover Network processes transactions for Discover-branded credit and debit cards and provides payment transaction processing and settlement services. PULSE operates an electronic funds transfer network, providing financial institutions issuing debit cards on the PULSE network with access to ATMs domestically and internationally, as well as point-of-sale terminals at retail locations throughout the U.S. for debit card transactions. Diners Club is a global payments network of licensees, which are generally financial institutions, that issue Diners Club branded charge cards and/or provide card acceptance services.

DFS manages its business activities in two segments: Direct Banking and Payment Services. DFS Direct Banking segment includes Discover-branded credit cards issued to individuals on the Discover Network and other consumer products and services, including private student loans, personal loans, home equity loans, and other consumer lending and deposit products. DFS Payment Services segment includes PULSE, Diners Club, and our Network Partners business, which provides payment transaction processing and settlement services on the Discover Network.

DFS was incorporated in Delaware in 1960. DFS principal executive offices are located at 2500 Lake Cook Road, Riverwoods, Illinois 60015. DFS main telephone number is (224) 405-0900.

Recent Developments

On January 24, 2019, DFS reported net income of \$687 million or \$2.03 per diluted share for the fourth quarter of 2018, as compared to \$387 million or \$0.99 per diluted share for the fourth quarter of 2017. Net income in the fourth quarter of 2017 included non-recurring charges of \$189 million resulting from actions taken by DFS in connection with the Tax Cuts and Jobs Act. These charges had the effect of reducing diluted earnings per share by \$0.52 in 2017. Fourth quarter highlights for DFS include:

Total loans grew 7%, from \$84.2 billion in the prior year to \$90.5 billion.

Total revenue net of interest expense grew 7%, from \$2,614 million in the prior year to \$2,807 million.

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Total net charge-off rate increased 23 basis points from 2.85% in the prior year to 3.08%.

Net income increased 78% from \$387 million in the prior year to \$687 million.

Diluted earnings per share increased 105% from \$0.99 in the prior year to \$2.03.

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The following summary is qualified in its entirety by reference to the more detailed information appearing elsewhere in this prospectus supplement and the accompanying prospectus. For more information concerning the notes, see Description of the Notes.

| | |
|-------------------------------|--|
| Issuer | Discover Financial Services. |
| Notes Offered | \$ _____ aggregate principal amount of _____ % Senior Notes due _____. |
| Maturity Date | The notes will mature on _____, _____. |
| Interest Payment Dates | The notes will bear interest at the rate of _____ % per year from the original issuance date. We will pay interest on the notes semi-annually in arrears each _____ and _____ (except for the final interest payment, which will be paid at maturity). We will make the first interest payment on _____, 2019. |
| Use of Proceeds | We estimate that our net proceeds from this offering will be approximately \$ _____ million (after deducting underwriting discounts and commissions and estimated offering expenses). We intend to use the net proceeds from this offering for general corporate purposes. For more information, see Use of Proceeds in this prospectus supplement. |
| Ranking | The notes will be our senior unsecured obligations. They will rank equally in right of payment with our other existing and future senior unsecured indebtedness. The notes will be effectively subordinated to any of our existing and future secured indebtedness, to the extent of the value of the collateral securing such indebtedness, and will be structurally subordinated to all existing and future obligations of our subsidiaries. See Description of the Notes Ranking in this prospectus supplement. |
| | As of September 30, 2018, at the parent holding company level, DFS had \$3.1 billion of senior indebtedness, without giving effect to this offering, and no secured indebtedness. As of September 30, 2018, excluding intercompany amounts, our subsidiaries had \$91.6 billion of total indebtedness and other liabilities, including deposits. |

Optional Redemption

We may redeem the notes at any time on or after _____, _____ (_____ months prior to the maturity date), in whole or in part, at a redemption price equal to 100% of the principal amount of the notes to be redeemed, plus accrued and unpaid interest thereon to, but excluding, the redemption date. See Description of the Notes Optional Redemption by Us in this prospectus supplement.

Future Issuances

We may from time to time, without notice to or consent of the holders of the notes, issue additional notes with the same terms as the notes, (except for the issue date and, in some cases, the public offering price and the first interest payment date) and such additional notes shall be consolidated with the notes issued in this offering and form a single series.

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| Covenants | There are no covenants or other provisions in the indenture that would afford holders of notes additional protection in the event of a recapitalization transaction, a change of control of our company or a highly leveraged transaction. See Description of Debt Securities Certain Covenants Restrictions on Consolidations, Mergers and Sales of Assets in the accompanying prospectus. In addition, the indenture includes a restriction on our ability to secure indebtedness with the voting stock of Discover Bank or any subsidiary succeeding to any substantial part of the business now conducted by Discover Bank. See Description of Debt Securities Certain Covenants Negative Pledge in the accompanying prospectus. |
| Sinking Fund | None. |
| Denominations | The notes will be issued only in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. |
| Form of Note | We will issue the notes in the form of one or more fully registered global notes registered in the name of the nominee of The Depository Trust Company (DTC). Beneficial interests in the notes will be represented through book-entry accounts of financial institutions acting on behalf of beneficial owners as direct and indirect participants in DTC. Clearstream Banking, S.A. (Clearstream) and Euroclear Bank, SA/NV (Euroclear) will hold interests on behalf of their participants through their respective U.S. depositories, which in turn will hold such interests in accounts as participants of DTC. Except in the limited circumstances described in this prospectus supplement, owners of beneficial interests in the notes will not be entitled to have notes registered in their names, will not receive or be entitled to receive notes in definitive form and will not be considered holders of notes under the indenture. See Description of the Notes Book Entry, Delivery and Form . |
| Trustee U.S. Federal Income Tax | U.S. Bank National Association. |
| Consequences | You should consult with your tax advisor with respect to the U.S. federal income tax considerations of the acquisition, ownership and disposition of the notes in light of your own particular situation and with respect to any tax considerations arising under the laws of any state, local, foreign or other taxing jurisdiction. See Material United States Federal Income Tax Consequences . |
| Governing Law | The laws of the State of New York govern the indenture and the notes. |

Listing

We do not intend to list the notes on any exchange or to include the notes in any automated quotation system.

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Investing in the notes involves risks. You should consider carefully the risks described below and all of the information contained in or incorporated by reference into this prospectus supplement and the accompanying prospectus before deciding whether to purchase the notes. In addition, you should carefully consider, among other things, the matters discussed under Risk Factors in our Annual Report on Form 10-K for the year ended December 31, 2017, which is incorporated by reference into this prospectus supplement and the accompanying prospectus. Our business, financial condition or results of operations could be materially adversely affected by any of these risks. The risks discussed below also include forward-looking statements and our actual results may differ substantially from those discussed in these forward-looking statements. See Special Note Regarding Forward-Looking Statements. The trading price of the notes may also be affected by the effects of these risks, macroeconomic trends and our financial results, as well as differences between our actual results and expectations.

Your decision to purchase the notes should be made only after carefully considering the suitability of the investment for you, in consultation with your own financial, legal, tax and other professional advisors. The notes are not an appropriate investment for you if you are not knowledgeable about the significant features of the notes or financial matters in general.

We are a holding company that conducts all of our business through subsidiaries. The debt and other liabilities of our subsidiaries will be effectively senior to the notes.

We conduct all of our business through our subsidiaries including Discover Bank, which represented 99% of our assets as of September 30, 2018. Our cash flow and, consequently, our ability to pay interest in cash and to service our debt, including the notes, are dependent to a certain extent upon the cash flow of our subsidiaries and the payment of funds to us by those subsidiaries in the form of loans, dividends or otherwise. Our subsidiaries are separate and distinct legal entities and have no obligation, contingent or otherwise, to pay any amounts due on the notes or to make cash available for that purpose. In addition, Discover Bank and many of our operating subsidiaries are highly regulated and may be subject to restrictions on their ability to pay dividends to us. These subsidiaries may use the earnings they generate, as well as their existing assets, to fulfill their own direct debt service requirements.

The notes will be our senior unsecured obligations and will rank equally with all of our existing and future senior unsecured indebtedness. To the extent that any of our subsidiaries have outstanding indebtedness, the notes will effectively rank junior to such indebtedness and other liabilities, including deposits. As of September 30, 2018, excluding intercompany amounts, our subsidiaries had \$91.6 billion of total indebtedness and other liabilities, including deposits. See Description of the Notes Ranking in this prospectus supplement.

The notes will be effectively subordinated to all of our existing and future secured debt and to the existing and future secured debt of our subsidiaries.

The notes are not secured by any of our assets or the assets of our subsidiaries. As a result, the indebtedness represented by the notes will effectively be subordinated to any secured indebtedness we or our subsidiaries may incur, to the extent of the value of the assets securing such indebtedness. As of September 30, 2018, we had no secured indebtedness and our subsidiaries had \$15.7 billion of long-term secured indebtedness. In the event of any distribution or payment of our assets in any foreclosure, dissolution, winding up, liquidation or reorganization, or other bankruptcy proceeding, any secured creditors would have a superior claim to the extent of their collateral. In the event of the dissolution, a winding up, liquidation or reorganization, or other bankruptcy proceeding of a subsidiary, creditors of that subsidiary would generally have the right to be paid in full before any distribution is made to us or the holders of the notes. If any of the foregoing occur, we cannot assure you that there will be sufficient assets to pay

amounts due on the notes.

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There are no covenants in the indenture governing the notes relating to our ability to incur future indebtedness or pay dividends and limited restrictions on our ability to engage in other activities, which could adversely affect our ability to pay our obligations under the notes.

The indenture governing the notes does not contain any financial covenants. The indenture permits us and our subsidiaries to incur additional debt, including secured debt. Because the notes will be unsecured, in the event of any liquidation, dissolution, reorganization, bankruptcy or other similar proceeding regarding us, whether voluntary or involuntary, the holders of our secured debt will be entitled to receive payment to the extent of the assets securing that debt before we can make any payment with respect to the notes. If any of the foregoing events occurs, we cannot assure you that we will have sufficient assets to pay amounts due on our debt and the notes. As a result, you may receive less than you are entitled to receive or recover nothing if any liquidation, dissolution, reorganization, bankruptcy or other similar proceeding occurs.

The indenture does not limit our subsidiaries' ability to issue or repurchase securities, pay dividends or engage in transactions with affiliates. Our ability to use our funds for numerous purposes may limit the funds available to pay our obligations under the notes.

There may not be a public market for the notes and an active trading market for the notes may not develop.

The notes constitute a new issue of securities with no established trading market. We do not currently intend to apply for listing of the notes on any securities exchange or to include the notes in any automated quotation system. We have been advised by the underwriters that they presently intend to make a market in the notes after completion of the offering. However, they are under no obligation to do so and may discontinue any market-making activities at any time without any notice. Accordingly, no liquid market for the notes may develop, and any market that develops may not last. If the notes are traded, they may trade at a discount from their offering price, depending on prevailing interest rates, the market for similar securities, our performance and other factors. To the extent that an active trading market does not develop, you may not be able to resell your notes at their fair market value or at all.

Interest rate risks may affect the value of the notes.

An investment in fixed-rate notes involves the risk that subsequent changes in market interest rates may adversely affect the value of the notes.

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Special Note Regarding Forward-Looking Statements

This prospectus supplement, the accompanying prospectus and the documents that we incorporate by reference into this prospectus supplement and the accompanying prospectus contain or will contain certain statements that are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that are difficult to predict. Actual outcomes and results may differ materially from those expressed in, or implied by, our forward-looking statements. Words such as expects, anticipates, believes, estimates and other similar expressions or future or conditional verbs such as will, should, would and could are intended to identify such forward-looking statements. You should not rely solely on the forward-looking statements, which are qualified in their entirety by reference to, and are accompanied by, the important factors described in our Annual Report on Form 10-K for the year ended December 31, 2017 filed with the SEC on February 21, 2018, including under the headings Risk Factors and Special Note Regarding Forward-Looking Statements. You should consider all uncertainties and risks contained in or incorporated by reference into this prospectus supplement and accompanying prospectus. Forward-looking statements speak only as of the date they are made, and we undertake no obligation to update any forward-looking statement.

The following factors, among others, could cause actual results to differ materially from those set forth in the forward-looking statements:

changes in economic variables, such as the availability of consumer credit, the housing market, energy costs, the number and size of personal bankruptcy filings, the rate of unemployment, the levels of consumer confidence and consumer debt and investor sentiment;

the impact of current, pending and future legislation, regulation, supervisory guidance and regulatory and legal actions, including, but not limited to, those related to financial regulatory reform, consumer financial services practices, anti-corruption and funding, capital and liquidity;

the actions and initiatives of current and potential competitors;

our ability to manage our expenses;

our ability to successfully achieve card acceptance across our networks and maintain relationships with network participants;

our ability to sustain and grow our private student loan, personal loan and home equity loan products;

difficulty obtaining regulatory approval for, financing, transitioning, integrating or managing the expenses of acquisitions of or investments in new businesses, products or technologies;

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our ability to manage our credit risk, market risk, liquidity risk, operational risk, legal and compliance risk and strategic risk;

the availability and cost of funding and capital;

access to deposit, securitization, equity, debt and credit markets;

the impact of rating agency actions;

the level and volatility of equity prices, commodity prices and interest rates, currency values, investments, other market fluctuations and other market indices;

losses in our investment portfolio;

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limits on our ability to pay dividends and repurchase our common stock;

limits on our ability to receive payments from our subsidiaries;

fraudulent activities or material security breaches of key systems;

our ability to remain organizationally effective;

our ability to increase or sustain Discover card usage or attract new customers;

our ability to maintain relationships with merchants;

the effect of political, economic and market conditions, geopolitical events and unforeseen or catastrophic events;

our ability to introduce new products and services;

our ability to manage our relationships with third-party vendors;

our ability to maintain current technology and integrate new and acquired systems;

our ability to collect amounts for disputed transactions from merchants and merchant acquirers;

our ability to attract and retain employees;

our ability to protect our reputation and our intellectual property; and

new lawsuits, investigations or similar matters or unanticipated developments related to current matters.

In addition, we routinely evaluate and may pursue acquisitions of or investments in businesses, products, technologies, loan portfolios or deposits, which may involve payment in cash or our debt or equity securities.

The foregoing review of important factors should not be construed as exclusive and should be read in conjunction with the other cautionary statements that are included in or incorporated by reference into this prospectus supplement and the accompanying prospectus. These factors expressly qualify all subsequent oral and written forward-looking

statements attributable to us or persons acting on our behalf. New factors emerge from time to time, and it is not possible for us to predict all of such factors, nor can we assess the impact of each such factor on our business or the extent to which any factor, or combination of factors, may cause our actual results to differ materially from those contained in any forward-looking statements.

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Use of Proceeds

We estimate that our net proceeds from this offering will be approximately \$ _____ million (after deducting underwriting discounts and commissions and estimated offering expenses). We intend to use the net proceeds from this offering for general corporate purposes.

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The following table sets forth our unaudited capitalization as of September 30, 2018 on an actual basis and on an as adjusted basis to reflect the issuance and sale of the notes, after deducting the underwriting discounts and commissions and before estimated offering expenses.

You should read this table in conjunction with our historical consolidated financial statements and related notes thereto and Management's Discussion and Analysis of Financial Condition and Results of Operations included in our Annual Report on Form 10-K for the fiscal year ended December 31, 2017 and in our Quarterly Reports on Form 10-Q for the quarterly periods ended March 31, 2018, June 30, 2018 and September 30, 2018 and in the other documents incorporated by reference into this prospectus supplement and the accompanying prospectus. See Documents Incorporated by Reference in this prospectus supplement and Where You Can Find More Information in the accompanying prospectus.

September 30, 2018

| (Unaudited, dollars in millions, except per share amounts) | Actual | As adjusted |
|--|-------------------|--------------------|
| Deposits: | | |
| Interest bearing deposit accounts | \$ 63,034 | \$ 63,034 |
| Non-interest bearing deposit accounts | 640 | 640 |
| Total deposits | 63,674 | 63,674 |
| Notes offered hereby | | |
| Long-term borrowings | 26,998 | 26,998 |
| Accrued expenses and other liabilities | 4,154 | 4,154 |
| Total liabilities | \$ 94,826 | \$ |
| Stockholders' Equity: | | |
| Preferred Stock, par value \$0.01 per share; 200,000,000 shares authorized; 5,700 issued and outstanding and aggregate liquidation preference of \$570 | \$ 563 | \$ 563 |
| Common Stock, par value \$0.01 per share; 2,000,000,000 shares authorized; 564,614,022 shares issued | 6 | 6 |
| Additional paid-in capital | 4,107 | 4,107 |
| Retained earnings | 18,354 | 18,354 |
| Accumulated other comprehensive income | (160) | (160) |
| Treasury Stock, at cost; 226,694,149 shares | (11,854) | (11,854) |
| Total stockholders' equity | 11,016 | 11,016 |
| Total liabilities and stockholders' equity | \$ 105,842 | \$ |

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Description of the Notes

The following summary sets forth certain terms and provisions of the notes and the Indenture (as defined herein), does not purport to be complete and is subject to, and is qualified in its entirety by reference to, the terms and provisions of the notes and the Indenture, including the definitions therein, copies of which are available for inspection at the office of the Trustee (as defined herein) at 100 Wall Street, Suite 1600, New York, New York 10005. A copy of the Indenture has also been filed as an exhibit to the registration statement of which this prospectus supplement is a part, and is incorporated herein by reference. Capitalized terms not otherwise defined herein shall have the meanings given to them in the notes and in the Indenture. Because the following is only a summary, it does not contain all of the information that you may find useful in evaluating an investment in the notes. We urge you to read the Indenture and the notes because they, and not this description, define your rights as holders of the notes.

The following discussion of the terms of the notes supplements the description of the general terms and provisions of the debt securities contained in the accompanying prospectus. You should read the accompanying prospectus and this prospectus supplement together for a more complete description of the Indenture and the notes. To the extent this summary differs from the summary in the accompanying prospectus, you should rely on the description of the notes in this prospectus supplement.

General

We will issue the notes under the senior indenture, dated June 12, 2007, between us and U.S. Bank National Association, as trustee (the Trustee). We refer to the indenture, as supplemented by or pursuant to the officer's certificate establishing the terms of the notes pursuant to Section 2.03 of the Indenture, as the Indenture.

Certain defined terms used in this Description of the Notes but not defined have the meanings assigned to them in the notes and in the Indenture. In this section, we, us, our and similar words refer to Discover Financial Services and not any of our subsidiaries.

The Indenture is by its terms subject to and governed by the Trust Indenture Act of 1939, as amended. You may obtain a copy of the Indenture and the form of the notes from us upon request, as set forth under Where You Can Find Additional Information in the accompanying prospectus.

The Notes

Notes in an initial aggregate principal amount of \$ will be issued in this offering. The aggregate principal amount of debt securities issuable under the Indenture is unlimited. We may from time to time, without notice to or consent of the holders of the notes, issue additional notes with the same terms as the notes (except for the issue date and, in some cases, the public offering price and the first interest payment date) and such additional notes shall be consolidated with the notes issued in this offering and form a single series. The notes to be issued in this offering will form their own series of notes for voting purposes and will not be part of the same class or series of any other notes previously issued by us. References herein to the notes shall include the notes and any further notes issued as described in this paragraph. We may at any time purchase notes at any price or prices in the open market or otherwise. Notes so purchased by us may, at our discretion, be held, resold or surrendered to the Trustee for cancellation.

The notes do not have the benefit of a sinking fund.

The notes will be issued only in fully registered form, without interest coupons, in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. The notes will be issued in the form of one or more global notes

deposited with a custodian for and registered in the name of a nominee of DTC, but in certain circumstances, may be represented by notes in certificated form. The notes are not issuable in bearer form.

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Interest

The notes will bear interest at % per annum computed on the basis of a year of 360 days consisting of twelve 30-day months. The notes will accrue interest on their stated principal amount from and including , 2019, or from the most recent interest payment date to which interest has been paid or duly provided for. Accrued and unpaid interest on the notes will be payable semi-annually in arrears on and of each year, commencing on , 2019 (except for the final interest payment, which will be paid at maturity). We will pay interest to the persons in whose names the notes are registered at the close of business on the and immediately preceding each interest payment date (whether or not a business day).

If any date on which interest, principal or premium is payable on the notes is not a business day, then payment of such amounts payable on such date will be made on the next succeeding day that is a business day (and without any interest or other payment in respect of any such delay) with the same force and effect as if made on such interest payment date, redemption date or maturity date, as the case may be.

Ranking

The notes:

will be our general unsecured obligations;

will be effectively subordinated to all of our existing and future secured indebtedness to the extent of the assets securing such indebtedness;

will be structurally subordinated to the existing and future claims of creditors of our subsidiaries;

will rank equally in right of payment with our existing and future unsecured and unsubordinated indebtedness; and

will be senior in right of payment to any of our existing and future subordinated indebtedness.

None of our subsidiaries will guarantee the notes. As noted above, the notes will be structurally subordinated to all of our subsidiaries existing and future obligations. See Risks Factors We are a holding company that conducts all of our business through subsidiaries. The debt and other liabilities of our subsidiaries will be effectively senior to the notes. As of September 30, 2018, at the parent holding company level, Discover Financial Services had \$3.1 billion of senior indebtedness, without giving effect to this offering, and no secured indebtedness. As of September 30, 2018, excluding intercompany amounts, our subsidiaries had \$91.6 billion of total indebtedness and other liabilities, including deposits.

Maturity

Unless earlier redeemed or repurchased, the notes will mature and be payable at par on , .

Optional Redemption by Us

We may, at our option, at any time on or after _____, (_____ months prior to the maturity date), redeem the notes in whole or in part on no less than 10 nor more than 60 days prior notice delivered to the holders of the notes. The notes will be redeemable at a redemption price equal to 100% of the principal amount of the notes to be redeemed, plus accrued and unpaid interest to, but excluding, the redemption date. If fewer than all of the notes are to be redeemed, the Trustee will select the notes for redemption on a pro rata basis, by lot or by such other method in accordance with DTC's procedures. The notes will be redeemed in denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. If any notes are to be redeemed in part only, the notice of redemption that relates to such notes will state the portion of such notes to be redeemed. Unless we default in payment of the redemption price, on and after the redemption date, interest will cease to accrue on the notes or the portions of the notes called for redemption.

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Payment and Transfer

Principal of, premium (if any) and interest on the notes will be payable, and the notes may be exchanged or transferred, at the office or agency maintained by us for such purpose (which initially will be the corporate trust office of the Trustee). Payment of principal of, premium (if any) and interest on notes in global form will be made in immediately available funds to DTC's nominee as the registered holder of such global notes. If the notes are no longer represented by global notes, payment of interest on the notes in certificated form may, at our option, be made by check mailed directly to holders at their registered addresses.

So long as the notes are represented by one or more global notes, transfers of beneficial interests in such global notes will be effected under DTC's procedures and will be settled in same-day funds. If the notes are no longer represented by global notes, a holder may transfer or exchange notes in certificated form at the same location given in the preceding paragraph. We are not required to transfer or exchange any note selected for redemption or for a period of 15 days before a selection of notes to be redeemed.

The registered holder of a note will be treated as the owner of it for all purposes. We will not be required to:

register the transfer of or exchange any note if the holder has exercised the holder's right, if any, to require us to repurchase the note, in whole or in part, except the portion of the note not required to be repurchased;

register the transfer of or exchange notes to be redeemed for a period of fifteen calendar days preceding the mailing of the relevant notice of redemption; or

register the transfer of or exchange any registered note selected for redemption in whole or in part, except the unredeemed or unpaid portion of that registered note being redeemed in part.

No service charge will be made for any registration of transfer or exchange of notes, but we may require payment of a sum sufficient to cover any tax or other governmental charge payable in connection with the registration of transfer or exchange of notes.

DTC or DTC's nominee will be the holder of the notes and therefore will be the only entity that can exercise a right to repayment. In order to ensure that DTC's nominee will timely exercise a right to repayment with respect to a particular note, the beneficial owner of the note must instruct the broker or other direct or indirect participant through which it holds an interest in the note to notify DTC of its desire to exercise a right to repayment. Different firms have different cut-off times for accepting instructions from their customers and, accordingly, each beneficial owner should consult the broker or other direct or indirect participant through which it holds an interest in a note in order to ascertain the cut-off time by which an instruction must be given in order for timely notice to be delivered to DTC.

Book-entry, Delivery and Form

Except as set forth below, the notes will be issued in fully registered, global form in minimum denominations of \$2,000 and integral multiples of \$1,000 in excess thereof. Notes initially will be represented by one or more notes in registered global form without interest coupons (the "Global Notes"). The Global Notes will be deposited with, or on behalf of, DTC and registered in the name of Cede & Co., as nominee of DTC, for the accounts of participants in

DTC. Unless and until exchanged, in whole or in part, for notes in definitive registered form, a Global Note may not be transferred except as a whole by the depositary for such Global Note to a nominee of such depositary, by a nominee of such depositary to such depositary or another nominee of such depositary or by such depositary or any such nominee to a successor of such depositary or a nominee of such successor.

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Ownership of beneficial interests in a Global Note will be limited to persons, called participants, that have accounts with the depository (currently DTC) or persons that may hold interests through participants in DTC. Investors may hold their interests in a Global Note directly through Euroclear and Clearstream, if they are participants in such systems, or indirectly through organizations that are participants in such systems. Euroclear and Clearstream will hold interests in a Global Note on behalf of their participants through their respective depositories, which in turn will hold such interests in the Global Note in customers' securities accounts in the depositories' names on the books of DTC.

Upon the issuance of a Global Note, the depository will credit, on its book-entry registration and transfer system, the participants' accounts with the respective principal or face amounts of the notes beneficially owned by the participants. Ownership of beneficial interests in a Global Note will be shown on, and the transfer of ownership interests will be effected only through, records maintained by DTC, with respect to interests of participants, and on the records of participants, with respect to interests of persons holding through participants.

So long as DTC, or its nominee, is the registered owner of the Global Note, DTC or its nominee, as the case may be, will be considered the sole owner or holder of the notes represented by the Global Note for all purposes under the Indenture and the notes. Except as described below, owners of beneficial interests in a Global Note will not be entitled to have the notes represented by the Global Note registered in their names, will not receive or be entitled to receive physical delivery of the notes in definitive form and will not be considered the owners or holders of the notes under the Indenture. Accordingly, each person owning a beneficial interest in a Global Note must rely on the procedures of the depository for that Global Note and, if that person is not a participant, on the procedures of the participant through which the person owns its interest, to exercise any rights of a holder under the Indenture. The laws of some states may require that some purchasers of notes take physical delivery of these notes in definitive form. Such laws may impair the ability to transfer beneficial interests in a Global Note.

To facilitate subsequent transfers, all notes deposited by participants with DTC are registered in the name of DTC's nominee, Cede & Co. The deposit of the notes with DTC and their registration in the name of Cede & Co. effect no change in beneficial ownership. DTC has no knowledge of the actual beneficial owners of the notes. DTC's records reflect only the identity of the direct participants to whose accounts such notes are credited, which may or may not be the beneficial owners. The participants will remain responsible for keeping account of their holdings on behalf of their customers.

We will make payments due on the notes to Cede & Co., as nominee of DTC, in immediately available funds. DTC's practice upon receipt of any payment of principal, premium, interest or other distribution of underlying securities or other property to holders on that Global Note, is to immediately credit participants' accounts in amounts proportionate to their respective beneficial interests in that Global Note as shown on the records of the depository. Payments by participants or indirect participants to owners of beneficial interests in a Global Note held through such participants or indirect participants will be governed by standing customer instructions and customary practices, as is now the case with the securities held for the accounts of customers in bearer form or registered in street name, and will be the responsibility of those participants or indirect participants. Payment to Cede & Co. is our responsibility. Disbursement of such payments to direct participants is the responsibility of Cede & Co. Disbursement of such payments to the beneficial owners is the responsibility of direct and indirect participants. Neither we nor the Trustee nor any other agent of ours or any agent of the Trustee will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial ownership interests in the Global Note or for maintaining, supervising or reviewing any records relating to those beneficial ownership interests or for any other aspect of the relationship between DTC and its participants or indirect participants or the relationship between such participants or indirect participants and the owners of beneficial interests in the Global Notes.

Transfers between participants in DTC will be effected under DTC's procedures and will be settled in same day funds. Transfers between participants in Euroclear and Clearstream will be effected in the ordinary way in accordance with their respective rules and operating procedures. If a holder requires physical delivery of a

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definitive note for any reason, including to sell notes to persons in jurisdictions that require such delivery of such notes or to pledge such notes, such holder must transfer its interest in the relevant Global Note in accordance with the normal procedures of DTC and the procedures set forth in the Indenture.

Cross-market transfers between DTC, on the one hand, and directly or indirectly through Euroclear or Clearstream participants, on the other, will be effected by DTC in accordance with DTC rules on behalf of Euroclear or Clearstream, as the case may be, by its respective depository; however, such cross-market transactions will require delivery of instructions to Euroclear or Clearstream, as the case may be, by the counterparty in such system in accordance with its rules and procedures and within its established deadlines (Brussels time). Euroclear or Clearstream, as the case may be, will, if the transaction meets its settlement requirements, deliver instructions to its respective depository to take action to effect final settlement on its behalf by delivering or receiving interests in the Global Note in DTC, and making or receiving payment in accordance with normal procedures for same-day funds settlement applicable to DTC. Euroclear participants and Clearstream participants may not deliver instructions directly to the depositories for Euroclear or Clearstream.

Because of the time zone differences, the securities account of a Euroclear or Clearstream participant purchasing an interest in the Global Note from a DTC participant will be credited during the securities settlement processing day (which must be a business day for Euroclear or Clearstream, as the case may be) immediately following the DTC settlement date, and such credit of any transaction's interests in the Global Note settled during such processing day will be reported to the relevant Euroclear or Clearstream participant on such day. Cash received in Euroclear or Clearstream as a result of sales of interests in a Global Note by or through a Euroclear or Clearstream participant to a DTC participant will be received with value on the DTC settlement date, but will be available in the relevant Euroclear or Clearstream cash account only as of the business day following settlement in DTC.

We expect that DTC will take any action permitted to be taken by a holder of notes (including the presentation of notes for exchange as described below) only at the direction of one or more participants to whose account the DTC interests in a Global Note are credited and only in respect of such portion of the aggregate principal amount of the notes as to which such participant or participants has or have given such direction. However, if DTC no longer is willing to act as depository, ceases to be a clearing agency or if there is an Event of Default under the notes, DTC will exchange each Global Note for definitive notes, which it will distribute to its participants. These definitive notes will be subject to certain restrictions on registration of transfers and will bear certain legends.

Although we expect that DTC, Euroclear and Clearstream will follow the foregoing procedures in order to facilitate transfers of interests in each Global Note among participants of DTC, Euroclear and Clearstream, DTC, Euroclear and Clearstream are under no obligation to perform or continue to perform such procedures, and such procedures may be discontinued at any time. Neither we nor the Trustee will have any responsibility for the performance by DTC, Euroclear or Clearstream or their participants or indirect participants of their respective obligations under the rules and procedures governing their operations.

DTC is a limited-purpose trust company organized under the New York Banking Law, a banking organization within the meaning of the New York Banking Law, a member of the Federal Reserve System, a clearing corporation within the meaning of the New York Uniform Commercial Code and a clearing agency registered pursuant to the provisions of Section 17A of the Securities Exchange Act of 1934, as amended (the Exchange Act). DTC was created to hold securities of its participants and to facilitate the clearance and settlement of securities transactions, such as transfers and pledges, among its participants in such securities through electronic computerized book-entry changes in accounts of the participants, thereby eliminating the need for physical movement of securities certificates. DTC's participants include securities brokers and dealers, banks, trust companies, clearing corporations and certain other organizations, some of whom own DTC. Access to DTC's book-entry system is also available to others, such as banks, brokers,

dealers and trust companies that clear through or maintain a custodial relationship with a participant, either directly or indirectly. The rules applicable to DTC and its participants are on file with the SEC.

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Euroclear and Clearstream hold securities for participating organizations. They also facilitate the clearance and settlement of securities transactions between their respective participants through electronic book-entry changes in the accounts of such participants. Euroclear and Clearstream provide various services to their participants, including the safekeeping, administration, clearance, settlement, lending and borrowing of internationally traded securities. Euroclear and Clearstream interface with domestic securities markets. Euroclear and Clearstream participants are financial institutions such as underwriters, securities brokers and dealers, banks, trust companies and certain other organizations. Indirect access to Euroclear or Clearstream is also available to others such as banks, brokers, dealers and trust companies that clear through or maintain a custodial relationship with a Euroclear or Clearstream participant, either directly or indirectly.

The information in this section concerning DTC and DTC's book-entry system, as well as information regarding Euroclear and Clearstream, has been obtained from sources that we believe to be reliable, but we do not take any responsibility for its accuracy or completeness. We assume no responsibility for the performance by DTC, Euroclear, Clearstream or their respective participants of their respective obligations, including obligations that they have under the rules and procedures that govern their operations.

Certificated Notes

If (i) DTC notifies us that it is no longer willing or able to act as a depository or DTC ceases to be registered as a clearing agency under the Exchange Act and a successor depository is not appointed within 90 days of such notice or cessation or (ii) upon the occurrence of certain other events as provided in the Indenture, then, upon surrender by DTC of the Global Notes, notes in certificated form will be issued to each person that DTC identifies as the beneficial owner of the notes represented by the Global Notes. Upon any such issuance, the Trustee is required to register such certificated notes in the name of such person or persons (or the nominee of any thereof) and cause the same to be delivered thereto.

Neither we nor the Trustee shall be liable for any delay by DTC or any participant or indirect participant in DTC in identifying the beneficial owners of the related notes and each of those persons may conclusively rely on, and will be protected in relying on, instructions from DTC for all purposes, including with respect to the registration and delivery, and the respective principal amounts, of the notes to be issued.

Notices

The Trustee will cause all notices to the holders of the notes to be mailed by first class mail, postage prepaid to the address of each holder as it appears in the register of notes (or while notes are held through DTC, by electronic delivery to DTC). Any notice so mailed will be conclusively presumed to have been received by the holders of the notes. Prospective purchasers should note that under normal circumstances DTC will be the only holder of the notes as that term is used herein and in the Indenture. See Book-Entry, Delivery and Form above.

Concerning Our Relationship With the Trustee

U.S. Bank National Association is the trustee of the Discover Card Execution Note Trust and the Discover Card Master Trust I under Discover Bank's amended and restated pooling and servicing agreement, as amended, and the trustee of The Student Loan Corporation's securitization trust. In addition, U.S. Bank National Association provides, and may continue to provide, certain credit card payment processing services to Discover Bank.

Governing Law

The Indenture and the notes are governed by, and construed in accordance with, the laws of the State of New York.

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Material United States Federal Income Tax Consequences

The following is a general discussion of the material U.S. federal income tax consequences of the acquisition, ownership, and disposition of the notes to beneficial owners of the notes. This discussion is based upon the Internal Revenue Code of 1986, as amended (the Internal Revenue Code), the U.S. Treasury regulations promulgated thereunder, administrative pronouncements and judicial decisions, all as of the date hereof and all of which are subject to change, possibly on a retroactive basis.

This discussion applies only to beneficial owners that acquire the notes in connection with their initial issuance, at their issue price (i.e., the first price at which a substantial amount of the notes is sold for cash other than to bond houses, brokers or similar persons or organizations acting in the capacity of underwriters, placement agents or wholesalers) and hold the notes as capital assets within the meaning of section 1221 of the Internal Revenue Code. This discussion does not address all aspects of U.S. federal income taxation that might be important to particular investors in light of their individual circumstances or the U.S. federal income tax consequences applicable to special classes of taxpayers, such as banks and other financial institutions, insurance companies, real estate investment trusts, regulated investment companies, tax-exempt organizations, accrual method taxpayers subject to special tax accounting rules as a result of their use of certain financial statements under Section 451(b) of the Internal Revenue Code, partnerships (or entities properly classified as partnerships for U.S. federal income tax purposes) or other pass-through entities, dealers in securities or currencies, traders in securities that elect to use a mark-to-market method of accounting, U.S. Holders (as defined below) whose functional currency is not the U.S. dollar, former citizens or residents of the United States, and persons holding the notes as part of a hedging or conversion transaction or a straddle. In addition, this discussion does not address alternative minimum tax considerations, the Medicare tax on net investment income or any foreign, state, local or non-income tax consequences of the acquisition, ownership or disposition of the notes to beneficial owners of the notes.

As used in this prospectus supplement, the term U.S. Holder means a beneficial owner of a note who or that is for U.S. federal income tax purposes:

a citizen or individual resident of the United States;

a corporation (or other entity properly classified as a corporation for U.S. federal income tax purposes) created or organized in or under the laws of the United States, any State within the United States, or the District of Columbia;

an estate, the income of which is subject to U.S. federal income taxation regardless of its source; or

a trust, if a U.S. court is able to exercise primary supervision over the trust's administration and one or more United States persons (as defined in the Internal Revenue Code) have the authority to control all substantial decisions of the trust.

The term Non-U.S. Holder means any beneficial owner of a note who or that is not a U.S. Holder and is not a partnership or other entity properly classified as a partnership for U.S. federal income tax purposes. For the purposes of this prospectus supplement, U.S. Holders and Non-U.S. Holders are referred to collectively as Holders.

If a partnership or other entity properly classified as a partnership for U.S. federal income tax purposes is a beneficial owner of a note, the tax treatment of a partner in the partnership will generally depend upon the status of the partner and the activities of the partnership. Such entities and partners of such entities should consult their own tax advisors about the U.S. federal income and other tax consequences of the acquisition, ownership, and disposition of a note.

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This discussion is for general purposes only. Holders should consult their own tax advisors regarding the application of the U.S. federal income tax laws to their particular situations and the consequences under federal estate or gift tax laws, as well as foreign, state, or local laws and tax treaties, and the possible effects of changes in tax laws.

U.S. Holders***Interest***

A U.S. Holder generally must include interest paid on the notes as ordinary income at the time it is received or accrued, in accordance with the U.S. Holder's regular method of accounting for U.S. federal income tax purposes. If, however, the stated principal amount of the notes exceeds the issue price by at least a statutory *de minimis* amount (as set forth in the applicable Treasury regulations), a U.S. Holder (regardless of its method of tax accounting) will be required to include such excess in income as original issue discount as it accrues in accordance with a constant yield method based on a compounding of interest before the receipt of cash payments attributable to this income. It is not expected that the stated principal amount of the notes will exceed the issue price by more than a *de minimis* amount. The discussion below assumes that the stated principal amount of the notes will not exceed the issue price by more than a *de minimis* amount.

Sale, exchange or redemption of the notes

Upon the sale, exchange, redemption or other taxable disposition of the notes, a U.S. Holder generally will recognize gain or loss equal to the difference, if any, between (i) the amount realized upon the sale, exchange, redemption or other taxable disposition of the notes, other than amounts attributable to accrued interest which would be treated as interest and taxed as described above in *Interest* to the extent such interest has not been previously included in income, and (ii) the U.S. Holder's adjusted tax basis in the notes. The amount realized by a U.S. Holder is the sum of cash plus the fair market value of all other property received on such sale, exchange, redemption or other taxable disposition. A U.S. Holder's adjusted tax basis in the notes generally will be its cost for the notes.

The gain or loss a U.S. Holder recognizes on the sale, exchange, redemption or other taxable disposition of the notes generally will be capital gain or loss. Such gain or loss generally will be long-term capital gain or loss if a U.S. Holder has held the notes for more than 12 consecutive months. For individuals, long-term capital gains are currently taxed at lower rates than ordinary income. The deductibility of capital losses is subject to limitations. A U.S. Holder should consult its own tax advisor regarding the deductibility of capital losses in its particular circumstances.

Backup withholding and information reporting

In general, a U.S. Holder that is not an exempt recipient will be subject to U.S. federal backup withholding tax at the applicable rate (currently 24%) with respect to payments on the notes and the proceeds of a sale, exchange, redemption or other taxable disposition of the notes, unless the U.S. Holder provides its taxpayer identification number to the paying agent and certifies, under penalties of perjury, that it is not subject to backup withholding on an Internal Revenue Service Form W-9 (Request for Taxpayer Identification Number and Certification) and otherwise complies with the applicable requirements of the backup withholding rules. Backup withholding is not an additional tax. The amount of any backup withholding from a payment to a U.S. Holder may be allowed as a credit against such U.S. Holder's U.S. federal income tax liability and may entitle such U.S. Holder to a refund, provided the required information is furnished to the Internal Revenue Service in a timely manner. In addition, payments on the notes made to, and the proceeds of a sale or other taxable disposition by, a U.S. Holder that is not an exempt recipient generally will be subject to information reporting requirements.

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Non-U.S. Holders

Payments of interest

Subject to the discussions below under Backup Withholding and Information Reporting and FATCA a Non-U.S. Holder generally will not be subject to U.S. federal withholding tax on interest paid on the notes that is not effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (or, in the case of an applicable income tax treaty, attributable to a permanent establishment maintained by the Non-U.S. Holder in the United States) so long as:

the Non-U.S. Holder does not actually or constructively own 10% or more of the total combined voting power of all of our stock entitled to vote;

the Non-U.S. Holder is not a controlled foreign corporation that is related to us, actually or by attribution, through stock ownership;

the Non-U.S. Holder is not a bank receiving the interest pursuant to a loan agreement entered into in the ordinary course of the Non-U.S. Holder's trade or business; and either

(i) the Non-U.S. Holder certifies under penalties of perjury on an Internal Revenue Service Form W-8BEN or W-8BEN-E that it is not a United States person (as defined in the Internal Revenue Code), and provides its name and address, and U.S. taxpayer identification number, if any, or (ii) a securities clearing organization, bank or other financial institution that holds customers' securities in the ordinary course of its trade or business and holds the notes on behalf of the Non-U.S. Holder certifies under penalties of perjury that the certification referred to in clause (i) has been received from the Non-U.S. Holder and furnishes to the applicable withholding agent a copy thereof.

A Non-U.S. Holder that does not qualify for exemption from withholding as described above generally will be subject to withholding of U.S. federal income tax at a rate of 30% on payments of interest on the notes. A Non-U.S. Holder may be entitled to the benefits of an income tax treaty under which interest on the notes is subject to a reduced rate of U.S. withholding tax or is exempt from U.S. withholding tax, provided the Non-U.S. Holder furnishes the applicable withholding agent a properly completed and executed Internal Revenue Service Form W-8BEN or W-8BEN-E claiming the reduction or exemption and the Non-U.S. Holder complies with any other applicable procedures.

Special rules regarding exemption from, or reduced rates of, U.S. withholding tax may apply in the case of notes held by partnerships or certain types of trusts. Partnerships and trusts that are prospective purchasers should consult their tax advisors regarding special rules that may be applicable in their particular circumstances.

Sale, exchange or redemption of the notes

Generally, subject to the discussions below under Backup withholding and information reporting and FATCA, any gain recognized by a Non-U.S. Holder on the sale, exchange, redemption or other taxable disposition of a note (other than amounts attributable to accrued and unpaid interest, which will be treated as interest and may be subject to the rules described under Payments of interest above) will be exempt from U.S. federal income and withholding tax,

unless:

the gain is effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (or, if a treaty applies, is attributable to a permanent establishment maintained by the Non-U.S. Holder in the United States); or

the Non-U.S. Holder is an individual who is present in the United States for 183 days or more during the taxable year, and certain other conditions are met.

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Gain described in the first bullet point above generally will be subject to U.S. federal income as described below under Effectively connected income.

Gain described in the second bullet point above will be subject to U.S. federal income tax at a rate of 30% (or such lower rate specified by an applicable income tax treaty), which may be offset by U.S. source capital losses of the Non-U.S. Holder (even though the individual is not considered a resident of the United States), provided the Non-U.S. Holder has timely filed U.S. federal income tax returns with respect to such losses.

Effectively connected income

If interest, gain or other income recognized by a Non-U.S. Holder on a note is effectively connected with the Non-U.S. Holder's conduct of a trade or business within the United States (and, if a treaty applies, is attributable to a permanent establishment maintained by the Non-U.S. Holder in the United States), the Non-U.S. Holder will not be subject to the withholding tax discussed above if the Non-U.S. Holder provides the applicable withholding agent with a properly completed and executed Internal Revenue Service Form W-8ECI (Certificate of Foreign Person's Claim That Income Is Effectively Connected With the Conduct of a Trade or Business in the United States), but the Non-U.S. Holder generally will be subject to U.S. federal income tax on such interest, gain or other income as if it were a United States person (as defined in the Internal Revenue Code). In addition to such U.S. federal income tax, if the Non-U.S. Holder is a corporation, it may be subject to an additional branch profits tax.

Backup withholding and information reporting

We must report annually to the Internal Revenue Service and to a Non-U.S. Holder the amount of interest paid to the Non-U.S. Holder and the tax withheld from those payments. These reporting requirements apply regardless of whether U.S. withholding tax on such payments was reduced or eliminated by any applicable tax treaty or otherwise. Copies of the information returns reporting those payments and the amounts withheld may also be made available to the tax authorities in the country where a Non-U.S. Holder is a resident under the provisions of an applicable income tax treaty or agreement.

Under some circumstances, U.S. Treasury regulations require backup withholding and additional information reporting on payments of interest and other reportable payments. Such backup withholding and additional information reporting will not apply to payments on the notes made by us or our paying agent to a Non-U.S. Holder if the certification described above under Payments of interest is received from the Non-U.S. Holder.

Backup withholding and information reporting generally will not apply to payments of proceeds from the sale or other disposition of a note made to a Non-U.S. Holder by or through the foreign office of a broker. However, information reporting requirements, and possibly backup withholding, will apply if such broker is, for U.S. federal income tax purposes, a United States person (as defined in the Internal Revenue Code) or has certain other enumerated connections with the United States, unless such broker has documentary evidence in its records that the Non-U.S. Holder is not a United States person (as defined in the Internal Revenue Code) and certain other conditions are met, or the Non-U.S. Holder otherwise establishes an exemption. Payments of proceeds from the sale or other disposition of a note made to a Non-U.S. Holder by or through the U.S. office of a broker are subject to information reporting and backup withholding at the applicable rate unless the Non-U.S. Holder certifies, under penalties of perjury, that it is not a United States person (as defined in the Internal Revenue Code) and it satisfies certain other conditions or otherwise establishes an exemption. Backup withholding is not an additional tax. A Non-U.S. Holder may obtain a refund or credit against its U.S. federal income tax liability of any amounts withheld under the backup withholding rules, provided the required information is furnished to the Internal Revenue Service in a timely manner.

Non-U.S. Holders should consult their tax advisors regarding the application of information reporting and backup withholding in their particular situations, the availability of an exemption therefrom, and the procedures for obtaining such an exemption, if available.

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FATCA

Sections 1471-1474 of the Internal Revenue Code and the Treasury regulations thereunder (*FATCA*) impose withholding taxes on certain types of payments made to foreign financial institutions, as defined under *FATCA*, and certain other non-U.S. entities. *FATCA* imposes a 30% withholding tax on payments of interest on the notes paid to a foreign financial institution, whether or not such foreign financial institution is the beneficial owner of such payments, unless the foreign financial institution is deemed to be compliant with *FATCA* or enters into an agreement with the Internal Revenue Service to, among other things, undertake to identify accounts held by certain U.S. persons or U.S.-owned foreign entities, annually report certain information about such accounts, and withhold 30% on payments to account holders whose actions prevent it from complying with these reporting and other requirements. In addition, *FATCA* imposes a 30% withholding tax on the same types of payments to a non-financial foreign entity of a certain type unless the entity certifies that it does not have any substantial U.S. owners or furnishes identifying information to the Internal Revenue Service or to the withholding agent regarding each substantial U.S. owner. Foreign financial institutions located in jurisdictions that have an intergovernmental agreement with the United States with respect to these rules may be subject to different rules. Prospective investors should consult their tax advisors regarding the application of *FATCA* to the acquisition, ownership or disposition of the notes.

The U.S. federal income tax discussion set forth above is included for general information only and may not be applicable depending upon a Holder's particular situation. Prospective purchasers of the notes should consult their own tax advisors with respect to the tax consequences to them of the acquisition, ownership and disposition of the notes, including the tax consequences under state, local, estate, foreign and other tax laws and tax treaties and the possible effects of changes in U.S. or other tax laws.

Table of Contents**Underwriting**

Merrill Lynch, Pierce, Fenner & Smith Incorporated, Barclays Capital Inc. and Goldman Sachs & Co. LLC are acting as representatives of each of the underwriters named below. Subject to the terms and conditions set forth in a firm commitment underwriting agreement among us and the underwriters, we have agreed to sell to the underwriters, and each of the underwriters has agreed, severally and not jointly, to purchase from us, the principal amount of notes set forth opposite its name below.

| Underwriters | Principal amount of notes |
|---|--------------------------------------|
| Merrill Lynch, Pierce, Fenner & Smith Incorporated | \$ |
| Barclays Capital Inc. | |
| Goldman Sachs & Co. LLC | |
| Total | \$ |

Subject to the terms and conditions set forth in the underwriting agreement, the underwriters have agreed, severally and not jointly, to purchase all of the notes sold under the underwriting agreement if any of these notes are purchased. If an underwriter defaults, the underwriting agreement provides that the purchase commitments of the nondefaulting underwriters may be increased or the underwriting agreement may be terminated.

We have agreed to indemnify the underwriters and their controlling persons against certain liabilities in connection with this offering, including liabilities under the Securities Act of 1933, as amended, or to contribute to payments the underwriters may be required to make in respect of those liabilities.

The underwriters are offering the notes, subject to prior sale, when, as and if issued to and accepted by them, subject to approval of legal matters by their counsel, including the validity of the notes, and other conditions contained in the underwriting agreement, such as the receipt by the underwriters of officer's certificates and legal opinions. The underwriters reserve the right to withdraw, cancel or modify offers to the public and to reject orders in whole or in part.

Commissions and Discounts

The representatives have advised us that the underwriters propose initially to offer the notes to the public at the public offering price set forth on the cover page of this prospectus supplement and to certain dealers at such price less a concession not in excess of % of the principal amount of the notes. Any underwriter may allow, and any such dealer may realow, a concession not in excess of % of the principal amount of the notes to certain other dealers. After the initial offering, the underwriters may from time to time vary the public offering price and other selling terms.

The expenses of the offering, not including the underwriting discount, are estimated at \$ and are payable by us.

New Issue of Notes

The notes are a new issue of securities with no established trading market. We do not intend to apply for listing of the notes on any national securities exchange or for inclusion of the notes on any automated dealer quotation system. We have been advised by the underwriters that they presently intend to make a market in the notes after completion of the offering. However, they are under no obligation to do so and may discontinue any market-making activities at any time without any notice. We cannot assure the liquidity of the trading market for the notes or that an active public market for the notes will develop. If an active public trading market for the notes does not develop, the market price and liquidity of the notes may be adversely affected. If the notes are

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traded, they may trade at a discount from the public offering price, depending on prevailing interest rates, the market for similar securities, our operating performance and financial condition, general economic conditions and other factors.

No Sales of Similar Securities

We have agreed that we will not, for the period from the date of this prospectus supplement through and including the closing date, without first obtaining the prior written consent of Merrill Lynch, Pierce, Fenner & Smith Incorporated, Barclays Capital Inc. and Goldman Sachs & Co. LLC, directly or indirectly, issue, sell, offer to contract or grant any option to sell, pledge, transfer or otherwise dispose of, any debt securities or securities exchangeable for or convertible into debt securities, except for the notes sold to the underwriters pursuant to the underwriting agreement.

Short Positions

In connection with the offering, the underwriters may purchase and sell the notes in the open market. These transactions may include short sales and purchases on the open market to cover positions created by short sales. Short sales involve the sale by the underwriters of a greater principal amount of notes than they are required to purchase in the offering. The underwriters must close out any short position by purchasing notes in the open market. A short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the notes in the open market after pricing that could adversely affect investors who purchase in the offering.

Similar to other purchase transactions, the underwriters' purchases to cover the syndicate short sales may have the effect of raising or maintaining the market price of the notes or preventing or retarding a decline in the market price of the notes. As a result, the price of the notes may be higher than the price that might otherwise exist in the open market.

Neither we nor any of the underwriters make any representation or prediction as to the direction or magnitude of any effect that the transactions described above may have on the price of the notes. In addition, neither we nor any of the underwriters make any representation that the representatives will engage in these transactions or that these transactions, once commenced, will not be discontinued without notice.

Other Relationships

Some of the underwriters and their affiliates have engaged in, and may in the future engage in, investment banking and other commercial dealings in the ordinary course of business with us or our affiliates. They have received, or may in the future receive, customary fees and commissions for these transactions.

The underwriters and certain of their affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing and brokerage activities. The underwriters and certain of their affiliates have, from time to time, performed, and may in the future perform, various commercial and investment banking and financial advisory services for the issuer and its affiliates, for which they received or may in the future receive customary fees and expenses.

In addition, in the ordinary course of their business activities, the underwriters and their affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers. Such investments and securities activities may involve securities and/or instruments of ours or our affiliates. Certain of the underwriters or their affiliates that have a lending relationship with us routinely hedge their credit exposure to us consistent with

their customary risk management policies. Typically, such underwriters and their affiliates would hedge such exposure by entering into transactions which consist of either

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the purchase of credit default swaps or the creation of short positions in our securities, including potentially the notes offered hereby. Any such credit default swaps or short positions could adversely affect future trading prices of the notes offered hereby. The underwriters and their affiliates may also make investment recommendations and/or publish or express independent research views in respect of such securities or financial instruments and may hold, or recommend to clients that they acquire, long and/or short positions in such securities and instruments.

Extended Settlement

We expect that delivery of the notes will be made against payment therefor on or about _____, 2019 which will be the third business day after the date of this prospectus supplement. Under Rule 15c6-1 of the SEC under the Exchange Act, trades in the secondary market generally are required to settle in two business days, unless the parties to a trade expressly agree otherwise. Accordingly, purchasers who wish to trade the notes on the date of this prospectus supplement will be required, by virtue of the fact that the notes will settle in three business days, to specify an alternative settlement cycle at the time of any such trade to prevent a failed settlement. Such purchasers should consult their own advisors in this regard.

European Economic Area

In relation to each Relevant Member State, with effect from and including the date on which the Prospectus Directive is implemented in that Relevant Member state, no offer of notes which are the subject of the offering contemplated by this prospectus supplement, the accompanying prospectus and any related free writing prospectus may be made to the public in that Relevant Member State other than:

- A to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- B to fewer than 150 natural or legal persons (other than qualified investors as defined in the Prospectus Directive), subject to obtaining the prior consent of the representatives for any such offer; or

C in any other circumstances falling within Article 3(2) of the Prospectus Directive, provided that no such offer of notes shall require Discover Financial Services or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Directive.

For the purpose of this provision, the expression "an offer of notes to the public" in relation to any notes in any Relevant Member State means the communication in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe for the notes, as the same may be varied in that Relevant Member State by any measure implementing the Prospectus Directive in that Relevant Member State and the expression "Prospectus Directive" means Directive 2003/71/EC (as amended or superseded) and includes any relevant implementing measure in the Relevant Member State.

United Kingdom

Any invitation or inducement to engage in investment activity (within the meaning of Section 21 of the FSMA) in connection with the issue or sale of the notes may only be communicated or caused to be communicated in circumstances in which Section 21(1) of the FSMA does not apply to Discover Financial Services.

All applicable provisions of the FSMA must be complied with in respect to anything done by any person in relation to the notes in, from or otherwise involving the United Kingdom.

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Notice to Prospective Investors in Hong Kong

The notes may not be offered or sold in Hong Kong by means of any document other than (i) in circumstances which do not constitute an offer to the public within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32, Laws of Hong Kong), or (ii) to professional investors within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder, or (iii) in other circumstances which do not result in the document being a prospectus within the meaning of the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32, Laws of Hong Kong); and no advertisement, invitation or document relating to the notes may be issued or may be in the possession of any person for the purpose of issue (in each case whether in Hong Kong or elsewhere), which is directed at, or the contents of which are likely to be accessed or read by, the public in Hong Kong (except if permitted to do so under the laws of Hong Kong) other than with respect to notes which are or are intended to be disposed of only to persons outside Hong Kong or only to professional investors within the meaning of the Securities and Futures Ordinance (Cap. 571, Laws of Hong Kong) and any rules made thereunder.

The contents of this prospectus supplement and the accompanying prospectus have not been reviewed by any regulatory authority in Hong Kong. You are advised to exercise caution in relation to the offering of the notes. If you are in any doubt about any of the contents of this document, you should obtain independent professional advice.

Notice to Prospective Investors in Japan

The notes offered by this prospectus supplement have not been and will not be registered under the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948, as amended, the FIEL) and each underwriter has acknowledged and agreed that it has not offered or sold and will not offer or sell any notes, directly or indirectly, in Japan or to, or for the account or benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan), or to others for reoffering or resale, directly or indirectly, in Japan or to, or for the account or benefit of, any resident of Japan, except pursuant to an exemption from the registration requirements of, and otherwise in compliance with, the FIEL and any other applicable laws, regulations and ministerial guidelines of Japan.

Notice to Prospective Investors in Singapore

This prospectus supplement and the accompanying prospectus have not been registered as a prospectus under the Securities and Futures Act, Chapter 289 of Singapore (SFA) by the Monetary Authority of Singapore, and the offer of the notes in Singapore is made primarily pursuant to the exemptions under Sections 274 and 275 of the SFA. Accordingly, this prospectus supplement, the accompanying prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of the notes may not be circulated or distributed, nor may the notes be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to any person in Singapore other than: (i) to an institutional investor as defined in Section 4A of the SFA (an Institutional Investor) pursuant to Section 274 of the SFA; (ii) to an accredited investor as defined in Section 4A of the SFA (an Accredited Investor) or other relevant person as defined in Section 275(2) of the SFA (a Relevant Person) and pursuant to Section 275(1) of the SFA, or to any person pursuant to an offer referred to in Section 275(1A) of the SFA, and in accordance with the conditions specified in Section 275 of the SFA; or (iii) otherwise pursuant to, and in accordance with, the conditions of any other applicable exemption or provision of the SFA.

It is a condition of the offer that where the notes are subscribed for or acquired pursuant to an offer made in reliance on Section 275 of the SFA by a Relevant Person which is:

- (a) a corporation (which is not an Accredited Investor), the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an Accredited Investor; or
- (b) a trust (where the trustee is not an Accredited Investor), the sole purpose of which is to hold investments and each beneficiary of the trust is an individual who is an Accredited Investor,

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securities or securities-based derivatives (each as defined in Section 2(1) of the SFA) of that corporation or the beneficiaries' rights and interest (howsoever described) in that trust shall not be transferred within 6 months after that corporation or that trust has subscribed for or acquired the notes except:

- (1) to an Institutional Investor, an Accredited Investor, a Relevant Person, or which arises from an offer referred to in Section 275(1A) of the SFA (in the case of a corporation), or Section 276(4)(i)(B) of the SFA (in the case of that trust);
- (2) where no consideration is or will be given for the transfer;
- (3) where the transfer is by operation of law; or
- (4) as specified in Section 276(7) of the SFA.

Singapore Securities and Futures Act Product Classification Solely for the purposes of its obligations pursuant to Sections 309B(1)(a) and 309B(1)(c) of the SFA, the issuer has determined, and hereby notifies all relevant persons (as defined in Section 309A of the SFA) that the notes are prescribed capital markets products (as defined in the Securities and Futures (Capital Markets Products) Regulations 2018) and Excluded Investment Products (as defined in MAS Notice SFA 04-N12: Notice on the Sale of Investment Products and MAS Notice FAA-N16: Notice on Recommendations on Investment Products).

Notice to Prospective Investors in Canada

The notes may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 *Prospectus Exemptions* or subsection 73.3(1) of the *Securities Act* (Ontario), and are permitted clients, as defined in National Instrument 31-103 *Registration Requirements, Exemptions and Ongoing Registrant Obligations*. Any resale of the notes must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus supplement (including any amendment thereto) contains a misrepresentation, provided that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 *Underwriting Conflicts* (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

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Legal Matters

The validity of the notes offered by this prospectus supplement will be passed upon for us by Sidley Austin LLP, New York, New York. Certain legal matters in connection with the offering of the notes will be passed upon for the underwriters by Mayer Brown LLP, Chicago, Illinois.

Experts

The consolidated financial statements incorporated in this prospectus supplement by reference from Discover Financial Services Annual Report on Form 10-K for the year ended December 31, 2017, and the effectiveness of Discover Financial Services internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their reports, which are incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

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Documents Incorporated by Reference

The SEC allows us to incorporate by reference much of the information that we file with it, which means that we can disclose important information to you by referring you to those publicly available documents. The information that we incorporate by reference is an important part of this prospectus supplement and the accompanying prospectus. Any statement contained in a document incorporated or deemed to be incorporated by reference into this prospectus supplement and the accompanying prospectus will be deemed to be modified or superseded for purposes of this prospectus supplement to the extent that a statement contained in this prospectus supplement or the accompanying prospectus or any other subsequently filed document that is deemed to be incorporated by reference into this prospectus supplement modifies or supersedes the statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus supplement.

This prospectus supplement incorporates by reference the documents listed below and any filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act until the termination of the offering of the securities described in this prospectus supplement; provided, however, that we are not incorporating by reference any documents, portions of documents or other information that is deemed to have been furnished and not filed with the SEC:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2017;

our Quarterly Reports on Form 10-Q for the quarters ended March 31, 2018, June 30, 2018 and September 30, 2018;

our Definitive Proxy Statement on Schedule 14A relating to our 2018 Annual Meeting of Stockholders, filed March 12, 2018; and

our Current Reports on Form 8-K filed with the SEC on January 24, 2018 (other than Exhibit 99.3 and relevant section in Exhibit 99.1), February 6, 2018, April 26, 2018 (other than Exhibit 99.3 and relevant section in Exhibit 99.1), May 8, 2018, August 3, 2018, August 9, 2018, September 13, 2018, and December 14, 2018 (related to Item 5.02).

We file annual, quarterly, and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's web site at <http://www.sec.gov> and on the investor relations page of our website at <http://www.discoverfinancial.com>. The information available at our website does not constitute a part of this prospectus. You may also request a copy of our SEC filings, or the documents we incorporate by reference in this prospectus supplement, at no cost, by writing or telephoning us at:

Discover Financial Services

2500 Lake Cook Road

Riverwoods, Illinois 60015

Attention: Investor Relations

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PROSPECTUS

Senior Debt Securities

Subordinated Debt Securities

Common Stock

Preferred Stock

Depositary Shares

Stock Purchase Contracts

Stock Purchase Units

Warrants

Hybrid Securities Combining Elements of the Foregoing

This prospectus relates to senior debt securities, subordinated debt securities, common stock, preferred stock, depositary shares, stock purchase contracts, stock purchase units, warrants and hybrid securities combining elements of the foregoing that we may sell from time to time in one or more transactions. This prospectus contains a general description of the securities that we may offer for sale. The specific terms of the securities will be contained in one or more supplements to this prospectus. This prospectus may not be used to offer and sell the securities unless accompanied by a prospectus supplement. A prospectus supplement may add, update or change information contained in this prospectus. Read this prospectus and the applicable prospectus supplement, as well as the documents incorporated by reference in this prospectus and the accompanying prospectus supplement, carefully before you invest.

Our common stock is listed on the New York Stock Exchange under the symbol DFS. On June 21, 2018, the last reported sale price of our common stock on the New York Stock Exchange was \$73.03 per share. You are urged to obtain current market quotations of the common stock. We have not yet determined whether any of the other securities that may be offered by this prospectus will be listed on any exchange, inter-dealer quotation system or over-the-counter market.

Our securities may be offered directly, through agents designated from time to time by us, or to or through underwriters or dealers. If any agents or underwriters are involved in the sale of any of our securities, their names, and any applicable purchase price, fee, commission or discount arrangement between or among them, will be set forth or will be calculable in the applicable prospectus supplement or other offering materials.

Investing in the securities involves risks. See Risk Factors on page 1 of this prospectus and in the accompanying prospectus supplement, in addition to the risk factors that are incorporated by reference into this prospectus and the accompanying prospectus supplement.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the securities offered hereby or passed upon the adequacy or accuracy of this prospectus. Any representation to the contrary is a criminal offense.

The securities offered hereby are not deposits or other obligations of a bank or savings association and are not insured or guaranteed by the Federal Deposit Insurance Corporation or any other governmental agency.

The date of this prospectus is June 22, 2018

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ABOUT THIS PROSPECTUS

This prospectus is part of an automatic shelf registration statement that we filed with the Securities and Exchange Commission, or SEC, as a well-known seasoned issuer as defined in Rule 405 under the Securities Act of 1933, as amended, or the Securities Act, utilizing a shelf registration process. Under this shelf process, we may from time to time offer and sell, in one or more offerings, the securities described in this prospectus. This prospectus provides you with a general description of the securities we may offer. Each time we sell securities under this prospectus, we will provide a prospectus supplement or other offering materials that will contain specific information about the terms of that offering. The prospectus supplement may add, update or change information contained in this prospectus. If the information in this prospectus is inconsistent with a prospectus supplement, you should rely on the information in that prospectus supplement. Please carefully read this prospectus and any prospectus supplement together with the additional information described under the heading Where You Can Find More Information.

You should rely only on the information contained or incorporated by reference in this prospectus and in any accompanying prospectus supplement and issuer free writing prospectus. We have not authorized any other person to provide you with different or additional information. If anyone provides you with different or additional information, you should not rely on it. This document may only be used where it is legal to sell these securities. We are not making an offer of these securities in any state or jurisdiction where the offer is not permitted. You should only assume that the information in this prospectus, in any prospectus supplement or issuer free writing prospectus is accurate only as of their respective dates. You should only assume that any information incorporated by reference in this prospectus, any prospectus supplement or issuer free writing prospectus is accurate only as of the date of the document incorporated by reference. Our business, financial condition, results of operations and prospects may have changed since those dates.

Each reference in this prospectus to we, us, our, Discover or the Company means Discover Financial Services and its consolidated subsidiaries, unless the context requires otherwise.

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THE COMPANY

Discover Financial Services is a direct banking and payment services company. We were incorporated in Delaware in 1960. We are a bank holding company under the Bank Holding Company Act of 1956 and a financial holding company under the Gramm-Leach-Bliley Act, and therefore are subject to oversight, regulation and examination by the Board of Governors of the Federal Reserve System (the Federal Reserve). We provide direct banking products and services and payment services through our subsidiaries. We offer our customers credit card loans, private student loans, personal loans, home equity loans and deposit products. We had \$82.7 billion in loan receivables and \$41.3 billion in deposits issued through direct-to-consumer channels and affinity relationships at March 31, 2018. We also operate the Discover Network, the PULSE network (PULSE) and Diners Club International (Diners Club). The Discover Network processes transactions for Discover-branded credit and debit cards and provides payment transaction processing and settlement services. PULSE operates an electronic funds transfer network, providing financial institutions issuing debit cards on the PULSE network with access to ATMs domestically and internationally, as well as point-of-sale terminals at retail locations throughout the U.S. for debit card transactions. Diners Club is a global payments network of licensees, which are generally financial institutions, that issue Diners Club branded charge cards and/or provide card acceptance services.

We manage our business activities in two segments: Direct Banking and Payment Services. Our Direct Banking segment includes consumer banking and lending products, specifically Discover-branded credit cards issued to individuals on the Discover Network and other consumer banking products and services, including private student loans, personal loans, home equity loans and deposit products. Our Payment Services segment includes PULSE, Diners Club and our Network Partners business, which provides payment transaction processing and settlement services on the Discover Network.

Our principal executive offices are located at 2500 Lake Cook Road, Riverwoods, Illinois 60015, and our telephone number is (224) 405-0900.

RISK FACTORS

Our business, and an investment in the securities, is subject to uncertainties and risks. You should carefully consider and evaluate all of the information included and incorporated by reference in this prospectus, including the risk factors incorporated by reference from our most recent Annual Report on Form 10-K and Quarterly Reports on Form 10-Q, as updated by other SEC filings filed after such reports, as well as any risks described in any applicable prospectus supplement. Our business, financial condition, results of operations and prospects could be materially adversely affected by any of these risks. The occurrence of any of these risks may cause you to lose all or part of your investment.

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SPECIAL NOTES CONCERNING FORWARD-LOOKING STATEMENTS

This prospectus, including the documents incorporated by reference into this prospectus and any related prospectus supplement, contain or will contain certain statements that are forward-looking within the meaning of the Private Securities Litigation Reform Act of 1995. These statements are not guarantees of future performance and involve certain risks, uncertainties and assumptions that are difficult to predict. Actual outcomes and results may differ materially from those expressed in, or implied by, our forward-looking statements. Words such as *expects*, *anticipates*, *believes*, *estimates* and other similar expressions or future or conditional verbs such as *will*, *should*, *would* and *are intended to identify* such forward-looking statements. You should not rely solely on the forward-looking statements, which are qualified in their entirety by reference to, and are accompanied by, the important factors described in our Annual Report on Form 10-K for the year ended December 31, 2017, including under the headings *Risk Factors* and *Special Note Regarding Forward-Looking Statements*, as updated by our other SEC filings filed after such Annual Report, including our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018. You should consider all uncertainties and risks contained in or incorporated by reference into this prospectus and any related prospectus supplement. Forward-looking statements speak only as of the date they are made, and we undertake no obligation to update any forward-looking statement.

Possible events or factors that could cause results or performance to differ materially from those expressed in our forward-looking statements include the following:

changes in economic variables, such as the availability of consumer credit, the housing market, energy costs, the number and size of personal bankruptcy filings, the rate of unemployment, the levels of consumer confidence and consumer debt and investor sentiment;

the impact of current, pending and future legislation, regulation, supervisory guidance and regulatory and legal actions, including, but not limited to, those related to financial regulatory reform, consumer financial services practices, anti-corruption and funding, capital and liquidity;

the actions and initiatives of current and potential competitors;

our ability to manage our expenses;

our ability to successfully achieve card acceptance across our networks and maintain relationships with network participants;

our ability to sustain and grow our private student loan, personal loan and home equity loan products;

difficulty obtaining regulatory approval for, financing, transitioning, integrating or managing the expenses of acquisitions of or investments in new businesses, products or technologies;

our ability to manage our credit risk, market risk, liquidity risk, operational risk, legal and compliance risk and strategic risk;

the availability and cost of funding and capital;

access to deposit, securitization, equity, debt and credit markets;

the impact of rating agency actions;

the level and volatility of equity prices, commodity prices and interest rates, currency values, investments, other market fluctuations and other market indices;

losses in our investment portfolio;

limits on our ability to pay dividends and repurchase our common stock;

limits on our ability to receive payments from our subsidiaries;

fraudulent activities or material security breaches of key systems;

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our ability to remain organizationally effective;

our ability to increase or sustain Discover card usage or attract new customers;

our ability to maintain relationships with merchants;

the effect of political, economic and market conditions, geopolitical events and unforeseen or catastrophic events;

our ability to introduce new products and services;

our ability to manage our relationships with third-party vendors;

our ability to maintain current technology and integrate new and acquired systems;

our ability to collect amounts for disputed transactions from merchants and merchant acquirers;

our ability to attract and retain employees;

our ability to protect our reputation and our intellectual property; and

new lawsuits, investigations or similar matters or unanticipated developments related to current matters. We routinely evaluate and may pursue acquisitions of or investments in businesses, products, technologies, loan portfolios or deposits, which may involve payment in cash or our debt or equity securities.

The foregoing review of important factors should not be construed as exclusive and should be read in conjunction with the other cautionary statements that are included in or incorporated by reference into this prospectus and any related prospectus supplement. These factors expressly qualify all subsequent oral and written forward-looking statements attributable to us or persons acting on our behalf. Except for any ongoing obligations to disclose material information as required under U.S. federal securities laws, we do not have any intention or obligation to update forward-looking statements after we distribute this prospectus and any related prospectus supplement, whether as a result of new information, future developments or otherwise.

USE OF PROCEEDS

Unless otherwise described in the applicable prospectus supplement, we intend to use the net proceeds from the sale of the securities for general corporate purposes, which may include: working capital needs, investments in, or extensions of credit to, our subsidiaries, possible repayment, repurchase or redemption of existing debt, expansion of existing

businesses, possible acquisitions of businesses and possible investments in other business opportunities. Pending such use, we intend to invest the net proceeds in interest-bearing investment-grade securities.

Table of Contents**RATIO OF EARNINGS TO FIXED CHARGES AND PREFERRED STOCK DIVIDENDS**

Our historical ratios of earnings to fixed charges and combined fixed charges and preferred stock dividends for the periods indicated are set forth in the table below. The ratio of earnings to fixed charges is computed by dividing (1) income before income tax expense, fixed charges and losses from unconsolidated investees by (2) total fixed charges. For purposes of computing these ratios, fixed charges are the sum of interest expense, amortized premiums, discounts and capitalized expenses related to indebtedness and an estimate of interest within rental expense. The ratio of earnings to combined fixed charges and preferred stock dividends is computed by dividing (1) income before income tax expense, fixed charges and losses from unconsolidated investees by (2) total combined fixed charges and preferred stock dividends. For purposes of computing these ratios, combined fixed charges and preferred stock requirements are the sum of interest expense, amortized premiums, discounts and capitalized expenses related to indebtedness, an estimate of interest within rental expense and preference security dividend requirements.

| | For the Three Months Ended | | For the Calendar Years Ended December 31, | | | | |
|--|-------------------------------|------|--|------|------|------|------|
| | March 31, March 31, | | 2017 | 2016 | 2015 | 2014 | 2013 |
| | 2018 | 2017 | | | | | |
| Ratio of Earnings to Fixed Charges | 2.8x | 3.3x | 3.2x | 3.6x | 3.9x | 4.3x | 4.4x |
| Ratio of Earnings to Combined Fixed Charges and Preferred Stock Dividends | 2.8x | 3.2x | 3.1x | 3.5x | 3.8x | 4.1x | 4.3x |

GENERAL DESCRIPTION OF SECURITIES

We may offer under this prospectus: debt securities, common stock, preferred stock, depositary shares, stock purchase contracts, stock purchase units, warrants to purchase debt securities, common stock or preferred stock; or any combination of the foregoing, either individually or as units consisting of two or more securities.

The following description of the terms of these securities sets forth some of the general terms and provisions of securities that we may offer. The particular terms of securities offered by any prospectus supplement and the extent, if any, to which the general terms set forth below do not apply to those securities, will be described in the related prospectus supplement. In addition, if we offer securities as units, the terms of the units will be described in the applicable prospectus supplement. If the information contained in the prospectus supplement differs from the following description, you should rely on the information in the prospectus supplement.

DESCRIPTION OF DEBT SECURITIES

We may issue senior debt securities and subordinated debt securities under one of two separate indentures. Our senior debt securities are to be issued under a senior indenture, dated as of June 12, 2007, by and between Discover Financial Services and U.S. Bank National Association, as trustee, a copy of which is incorporated by reference into the registration statement, to which this prospectus forms a part, as an exhibit. Our subordinated debt securities are to be issued under a subordinated indenture, dated as of September 8, 2015, by and between Discover Financial Services and U.S. Bank National Association, as trustee, a copy of which is incorporated by reference into the registration statement, to which this prospectus forms a part, as an exhibit.

The senior debt securities and the subordinated debt securities are collectively referred to in this prospectus as the debt securities. The senior indenture and the subordinated indenture are referred to in this prospectus individually as the Indenture and collectively as the Indentures. The Indentures may be supplemented from time to time.

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The following section is a summary of certain provisions of the Indentures. This summary does not purport to be complete and is subject to, and is qualified in its entirety by reference to, all the provisions of the Indentures, including the definitions in the Indentures of certain terms. We encourage you to read the Indentures and our debt securities for provisions that may be important to you. Wherever this summary refers to particular sections or defined terms of an Indenture, it is intended that such sections or defined terms shall be incorporated into this prospectus by reference. All capitalized terms included in this summary shall have the same meanings specifically set forth in the applicable Indenture. In this section, the Company, we, us, our and similar words refer to Discover Financial Services and not any of its subsidiaries.

Our debt securities may be issued as part of a stock purchase unit. Stock purchase units are summarized in this prospectus under the heading Description of Stock Purchase Contracts and Stock Purchase Units.

General

The Indentures provide that the debt securities issuable thereunder shall be issuable in series. The aggregate principal amount of debt securities issuable under each Indenture is unlimited, and debt securities may be issued from time to time. The senior debt securities will be our direct unsecured obligations. The subordinated debt securities will be our direct unsecured obligations and will be subordinated to all of our senior debt as described below under the heading

Subordination. The debt securities issued under the Indentures will be subordinate to all of our existing and future secured indebtedness and structurally subordinated to existing and future claims of creditors of our subsidiaries.

Except as described below under the heading Certain Covenants, the Indentures do not limit other indebtedness or securities which may be incurred or issued by us or any of our subsidiaries or contain financial or similar restrictions on us or our subsidiaries.

The terms of each series of debt securities will be established by or pursuant to resolutions of our board of directors (and to the extent established other than in a board resolution, in an officer's certificate detailing such establishment) or pursuant to a supplemental indenture. If we offer debt securities, we will prepare and distribute a prospectus supplement that describes the specific terms of such debt securities. We do not have to issue all of the debt securities of one series at the same time and, unless otherwise specified in a prospectus supplement, we may reopen a series, without the consent of the holders of the debt securities of that series, for issuances of additional debt securities of that series. The applicable prospectus supplement may provide the following terms of the debt securities being offered, if applicable:

the designation of the securities;

the aggregate principal amount and any limit upon the aggregate principal amount of the securities;

if other than U.S. dollars, the currency or currencies in which the securities are denominated;

the date or dates on which principal of the securities is payable;

the rate or rates at which the securities shall bear interest, if any, the date or dates from which such interest shall accrue, on which interest shall be payable and, in the case of registered securities, on which a record date shall be taken for determining holders to whom interest is payable and/or the method by which such rate or rates or date or dates shall be determined;

if other than the offices of the applicable Trustee, the place where the principal of and interest on the securities will be payable;

our right, if any, to redeem the securities, in whole or in part, at our option and the period or periods within which, the price or prices at which and any terms and conditions, including the notice period, upon which the securities may be so redeemed, pursuant to any sinking fund or otherwise;

our obligation, if any, to redeem, purchase or repay the securities pursuant to any mandatory redemption, sinking fund or analogous provisions or at the option of a holder thereof and the price or

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prices at which and the period or periods within which and any terms and conditions upon which the securities shall be redeemed, purchased or repaid, in whole or in part, pursuant to such obligation;

if other than denominations of \$2,000 and any integral multiple of \$1,000 in excess thereof, the denominations in which the securities will be issuable;

if other than the principal amount of such security, the portion of the principal amount payable upon declaration of acceleration of the maturity thereof;

if other than the coin or currency in which the securities are denominated, the coin or currency in which payment of the principal of or interest on the securities shall be payable;

if the principal of or interest on the securities are to be payable, at our election or a holder thereof, in a coin or currency other than that in which the securities are denominated, the period or periods within which, and the terms and conditions upon which, such election may be made;

if the amount of payments of principal of and interest on the securities may be determined with reference to an index based on a coin or currency other than that in which the securities are denominated, or with reference to any currencies, securities or baskets of securities, commodities or indices, the manner in which such amounts shall be determined;

if the holders of the securities may convert or exchange the securities into or for other of our or another entity's securities or for other property (or the cash value thereof), the specific terms of and period during which such conversion or exchange may be made;

whether the securities shall be issued as registered securities, and if so whether such securities will be issuable in the form of a registered global security, or unregistered (with or without coupons) or any combination thereof;

whether the securities are senior debt securities or subordinated debt securities and, if subordinated debt securities, the specific subordination provisions applicable thereto;

in the case of subordinated debt securities, provisions specifying the relative degree, if any, to which such subordinated debt securities of the series will be senior to or be subordinated in right of payment to other series of subordinated debt securities or other indebtedness of the Company, as the case may be, whether such other series of subordinated debt securities or other indebtedness is outstanding or not;

any restrictions applicable to the offer, sale, transfer, exchange or delivery of unregistered or registered securities or the payment of interest thereon and, if applicable, the terms upon which unregistered securities may be exchanged for registered securities and vice versa;

whether and under what circumstances we will pay additional amounts on the securities held by a non-U.S. Person in respect of tax, assessment or governmental charge withheld or deducted and, if so, whether we will have the option to redeem such securities rather than pay such additional amounts;

if the securities are to be issued in definitive form only upon the receipt of certain certificates or other documents or satisfaction of other conditions, the form and terms of such certificates, documents or conditions;

the identity of any trustees, depositories, authenticating or paying agents, transfer agents or registrars or any other agents with respect to the securities;

any other events of default or covenants with respect to the securities, including any additions to or changes in the events of default, covenants or acceleration provisions described in this prospectus or the Indentures; and

any other specific terms of the securities, including any which may modify, delete, supplement or add any provision of the Indentures as it applies to that series.

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Certain Covenants

Negative Pledge. Unless otherwise provided in any series of debt securities, the senior indenture provides that we will not, and will not permit any of our subsidiaries to, create, assume, incur or guarantee any indebtedness for borrowed money that is secured by a pledge, lien or other encumbrance (except for Permitted Liens, as defined below) on:

the Voting Securities (defined below) of Discover Bank or any subsidiary succeeding to any substantial part of the business now conducted by Discover Bank; or

the Voting Securities of a subsidiary that owns, directly or indirectly, the voting securities of Discover Bank or any subsidiary succeeding to any substantial part of the business now conducted by Discover Bank, other than directors' qualifying shares,

in either case without making effective provisions so that the debt securities issued under the senior indenture will be secured equally and ratably with (or, at our option, prior to) indebtedness so secured. For these purposes, subsidiary means any corporation, partnership or other entity of which at the time of determination we own or control directly or indirectly more than 50% of the shares of the voting stock or equivalent interest, and Voting Securities means the stock of any class or classes having general voting power under ordinary circumstances to elect a majority of the board of directors, managers or trustees of the relevant subsidiary, other than stock that carries only the conditional right to vote upon the happening of an event, whether or not that event has happened. Permitted Liens means (i) liens for taxes or assessments or governmental charges or levies not then due and delinquent or the validity of which is being contested in good faith or which are less than \$1,000,000 in amount, (ii) liens created by or resulting from any litigation or legal proceeding which is currently being contested in good faith by appropriate proceedings or which involves claims of less than \$1,000,000, (iii) deposits to secure (or in lieu of) surety, stay, appeal or customs bonds and (iv) such other liens as our board of directors determines do not materially detract from or interfere with the present value or control of the Voting Securities subject thereto or affected thereby.

The subordinated indenture does not contain any limitations on liens.

Restrictions on Consolidations, Mergers and Sales of Assets. Unless otherwise provided in any series of debt securities, the Indentures provide that we will not merge or consolidate with any other person and will not sell, lease or convey all or substantially all of our assets to any other person, unless:

we will be the continuing corporation; or

the successor corporation or person that acquires all or substantially all of our assets:

will be a corporation organized under the laws of the United States, a state of the United States or the District of Columbia; and

will expressly assume the due and punctual payment of the principal of and interest on all of our debt securities issued under the applicable Indenture and the due and punctual performance and observance of all of the covenants and conditions of the Indentures to be performed or observed by us, by supplemental indenture satisfactory to the applicable Trustee, executed and delivered to the applicable Trustee by such corporation; and

immediately after the merger, consolidation, sale, lease or conveyance, we, that person or that successor corporation will not be in default in the performance of the covenants and conditions of the Indenture. Other than as described above or in any prospectus supplement, there are no covenants or other provisions in the Indentures that would afford holders of our debt securities additional protection in the event of a recapitalization transaction, a change of control of our company or a highly leveraged transaction. The merger covenant described above would only apply if the recapitalization transaction, change of control or highly

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leveraged transaction were structured to include our merger or consolidation or a sale, lease or conveyance of all or substantially all of our assets.

Reports. We are required to file with each Trustee, within 15 days after we are required to file the same with the SEC, copies of the annual reports and of the information, documents, and other reports that we may be required to file with the SEC pursuant to Section 13 or Section 15(d) of the Securities Exchange Act of 1934, as amended (the Exchange Act) or pursuant to Section 314 of the Trust Indenture Act of 1939, as amended (the Trust Indenture Act).

Events of Default

The Indentures provide holders of our debt securities with remedies if we fail to perform specific obligations or if we become bankrupt. You should review these provisions and the related provisions in the applicable prospectus supplement and understand which of our actions trigger an event of default and which actions do not.

Each of the following constitutes an event of default with respect to each series of senior debt securities:

default in the payment of any installment of interest upon any of the debt securities of such series as and when the same shall become due and payable, and continuance of such default for a period of 30 days;

default in payment of all or any principal of the debt securities of such series as and when the same shall become due and payable, either at maturity, upon any redemption, by declaration or otherwise;

failure in the observance or performance of any of the other covenants or agreements in the debt securities of such series or contained in the Indenture applicable to such series (other than a covenant or warranty with respect to the debt securities of such series the breach or nonperformance of which is otherwise included in the definition of event of default) for a period of 60 days after the date on which written notice specifying such failure, stating that such notice is a Notice of Default and demanding that we remedy the same, shall have been given by registered or certified mail, return receipt requested, to (1) us by the applicable Trustee or (2) us and the applicable Trustee by the holders of at least 25% in principal amount of the outstanding debt securities of such series;

default under any mortgage, indenture or other instrument securing or evidencing any of our indebtedness or that of Discover Bank, or any subsidiary succeeding to any substantial part of the business now conducted by Discover Bank, in an aggregate principal amount of \$50 million or more and which default (i) constitutes a failure to make any scheduled principal or interest payment when due after giving effect to any applicable grace period or (ii) accelerates the payment of such debt and such acceleration is not rescinded or annulled, or such debt is not discharged, within 15 days after written notice specifying such default and demanding that we remedy the same by (1) the applicable Trustee or (2) the holders of at least 25% in principal amount of the outstanding debt securities of such series;

a court having jurisdiction in the premises shall enter a decree or order for relief in respect of us in an involuntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect,

or appointing a receiver, liquidator, assignee, custodian, trustee, sequestrator (or similar official) of us or for any substantial part of our property or ordering the winding up or liquidation of our affairs, and such decree or order shall remain unstayed and in effect for a period of 60 consecutive days;

we shall commence a voluntary case under any applicable bankruptcy, insolvency or other similar law now or hereafter in effect, or consent to the entry of an order for relief in an involuntary case under any such law, or consent to the appointment or taking possession by a receiver, liquidator, assignee, custodian, trustee, sequestrator (or similar official) of us or for any substantial part of our property, or make any general assignment for the benefit of creditors; or

any other event of default provided with respect to the debt securities of such series pursuant to any supplemental indenture or in the form of such debt securities.

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An event of default under the subordinated indenture with respect to subordinated debt securities of any series will occur only upon the occurrence of certain events in bankruptcy, insolvency or reorganization involving us. There will be no event of default, and holders of the subordinated debt securities will not be entitled to accelerate the maturity of the subordinated debt securities, in the case of a default in the performance of any covenant or obligation with respect to the subordinated debt securities, including a default in the payment of principal or interest.

Acceleration of Debt Securities upon an Event of Default. The senior indenture provides that if an event of default applicable to any series of senior debt securities occurs and is continuing, either the Trustee or the holders of not less than 25% in aggregate principal amount of the outstanding senior debt securities of such series by notice in writing to us and to the Trustee, if given by security holders, may declare the principal of all the senior debt securities of such series and interest accrued thereon to be due and payable immediately. The subordinated indenture provides that acceleration is automatic upon the occurrence of an event of default applicable to the subordinated debt securities.

Waiver of Defaults. The Indentures provide that the holders of a majority in aggregate principal amount of outstanding debt securities of any series with respect to which an event of default has occurred and is continuing may on behalf of the holders of all such debt securities of such series waive any past default or event of default and its consequences, other than a default in the payment of principal or interest (unless such default has been cured and an amount sufficient to pay all matured installments of interest and principal due otherwise than by acceleration has been deposited with the applicable Trustee) or a default in respect of a covenant or provision in the Indenture that cannot be modified or amended without the consent of the holder of each debt security affected. In the case of any such waiver, we, the applicable Trustee, and the holders of all such debt securities shall be restored to their former positions and rights under the applicable Indenture, respectively; but no such waiver shall extend to any subsequent or other default or impair any right consequent thereon.

Collection of Indebtedness. If a default in the payment of principal of, or any interest on, debt securities of any series issued under the Indentures occurs and is continuing and we fail to pay the full amount then due and payable with respect to all debt securities of such series immediately upon the demand of the applicable Trustee, such Trustee is entitled to institute an action or proceeding to collect the amount due and unpaid. If any default occurs and is continuing, the applicable Trustee may pursue legal action to enforce the performance of any provision in the Indenture to protect the rights of such Trustee and the holders of the debt securities of such series issued under the Indenture.

Indemnification of Trustee for Actions Taken on Your Behalf. The Indentures contain a provision entitling the Trustees, subject to the duty of the Trustees during a default to act with the required standard of care, to be indemnified by the holders of debt securities issued under the Indentures before proceeding to exercise any trust or power at the request of such holders. Subject to these provisions and some other limitations, the holders of a majority in aggregate principal amount of outstanding debt securities of any series may direct the time, method and place of conducting any proceeding for any remedy available to the Trustees, or exercising any trust or power conferred on the Trustees with respect to such series.

Limitation on Actions by You as an Individual Holder. The Indentures provide that no individual holder of debt securities of any series may institute any action against us, except actions for payment of overdue principal and interest, unless the following actions have occurred:

the holder must have previously given written notice to the applicable Trustee of the continuing default;

the holders of not less than 25% in aggregate principal amount of the outstanding debt securities of such series must have (1) made a written request upon the applicable Trustee to institute that action and (2) offered the Trustee reasonable indemnity as it may require against the costs, expenses and liabilities to be incurred therein or thereby;

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the Trustee must have failed to institute that action within 60 days after receipt of the request referred to above; and

the holders of a majority in principal amount of the outstanding debt securities of such series must not have given directions to the Trustee inconsistent with those of the holders referred to above.

Annual Certification. The Indentures contain a covenant that we will file annually with the Trustees a certificate of no default or a certificate specifying any default that exists.

Discharge, Defeasance and Covenant Defeasance

We have the ability to eliminate most or all of our obligations on debt securities of any series prior to maturity if we comply with the following provisions.

Discharge of Indenture. If at any time we have:

paid or caused to be paid the principal of and interest on all of the outstanding debt securities of any series as and when the same shall have become due and payable;

delivered to the applicable Trustee for cancellation all of the outstanding debt securities of such series theretofore authenticated; or

in the case of any series of debt securities where the exact amount (including currency of payment) of principal of and interest due can be determined at the time of making the deposit referred to in clause (B) below, (A) all the debt securities of such series not theretofore delivered to the applicable Trustee for cancellation shall have become due and payable, or are by their terms to become due and payable within one year or are to be called for redemption within one year under arrangements satisfactory to the applicable Trustee for the giving of notice of redemption (or, in the case of debt securities that do not bear a fixed interest rate, within the remaining term of the then current interest period) and (B) we shall have irrevocably deposited or caused to be deposited with the applicable Trustee as trust funds the entire amount in cash (other than moneys repaid by the applicable Trustee or any paying agent to us), or, in the case of any series of debt securities the payment on which may only be made in dollars, direct obligations of the United States of America, maturing as to principal and interest at such times and in such amounts as will insure the availability of cash, or a combination thereof, sufficient in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the applicable Trustee, to pay (1) the principal and interest on all debt securities of such series on each date that such principal or interest is due and payable and (2) any mandatory sinking fund payments on the dates on which such payments are due and payable in accordance with the terms of the applicable Indenture and the debt securities of such series; and if, in any such case, we also pay or cause to be paid all other sums payable by us under the Indenture with respect to the debt securities of such series, then the Indenture shall cease to be of further effect with respect to the debt securities of such series, except as to certain rights and with respect to the transfer and exchange of the debt securities of such series, rights of the holders to receive payment and certain other rights and the applicable Trustee, on our demand accompanied by an officer's certificate and opinion of counsel and at our cost and expense, shall execute proper instruments acknowledging such

satisfaction of and discharging the Indenture as to such series; provided that the rights of holders of the debt securities to receive amounts in respect of principal of and interest on the securities held by them shall not be delayed longer than required by then-applicable mandatory rules or policies of any securities exchange upon which the debt securities are listed. We will reimburse the applicable Trustee for any costs or expenses thereafter reasonably and properly incurred and compensate the applicable Trustee for any services thereafter reasonably and properly rendered by such Trustee in connection with the applicable Indenture or the debt securities of such series.

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Defeasance at Any Time. We may elect (i) to be discharged from all of our obligations (other than as to (1) transfers and exchanges of debt securities and our right of optional redemption, if any, (2) replacement of lost, mutilated, defaced, stolen or destroyed debt securities (3) rights of holders to receive payment of the principal and interest on such debt securities at the dates when due, (4) rights, obligations and duties to the Trustee and (5) rights of holders thereof to the property deposited with the Trustee in furtherance of such defeasance and (6) our obligations with respect to maintaining an office for payment) with respect to the outstanding debt securities of any series, which is referred to as *defeasance* or (ii) to be released from our obligation to comply with the provisions of the Indentures described above under *Certain Covenants* with respect to the outstanding debt securities of any series (and, if so specified, any other obligation or restrictive covenant added for the benefit of the holders of such series of debt securities) which is referred to as *covenant defeasance*, in either case, if we satisfy each of the following conditions:

We irrevocably deposit or cause to be deposited with the applicable Trustee in trust, specifically pledged as security for, and dedicated solely to, the benefit of the holders of the debt securities, (A) cash in an amount, or (B) in the case of any series of debt securities the payments on which may only be made in dollars, U.S. government obligations maturing as to principal and interest at such times and in such amounts as will insure the availability of cash or (C) a combination thereof, sufficient, in the opinion of a nationally recognized firm of independent public accountants expressed in a written certification thereof delivered to the applicable Trustee, to pay (1) the principal and interest on all debt securities of such series and (2) any mandatory sinking fund payments on the day on which such payments are due and payable in accordance with the terms of the applicable Indenture and the outstanding debt securities of such series.

Such defeasance or covenant defeasance shall not result in a breach or violation of, or constitute a default under, the applicable Indenture or any other agreement or instrument to which we are a party or by which we are bound.

We deliver to the applicable Trustee an officer's certificate (only in the case of a covenant defeasance) and an opinion of counsel to the effect that the holders of debt securities of such series will not recognize income, gain or loss for U.S. federal income tax purposes as a result of such defeasance or covenant defeasance and will be subject to U.S. federal income tax on the same amounts, in the same manner and at the same times as would have been the case if such defeasance or covenant defeasance had not occurred. In the case of a defeasance, but not in the case of covenant defeasance, the opinion must be based on a ruling of the Internal Revenue Service or a change in U.S. federal income tax law occurring after the date of the applicable Indenture, since that result would not occur under current tax law.

We deliver to the applicable Trustee an officer's certificate and an opinion of counsel, each stating that all conditions precedent relating to the defeasance or covenant defeasance have been complied with. Additionally, in the case of covenant defeasance, we must satisfy the following additional conditions:

No event of default or event which with notice or lapse of time or both would become an event of default with respect to the debt securities shall have occurred and be continuing on the date of such deposit or, insofar as certain subsections of the Indenture pertaining to bankruptcy or insolvency provisions are

concerned, at any time during the period ending on the 91st day after the date of such deposit.

Such covenant defeasance does not cause the applicable Trustee to have a conflicting interest for purposes of the Trust Indenture Act with respect to any of our securities.

Such covenant defeasance does not cause any debt securities then listed on any registered national securities exchange under the Exchange Act to be delisted.

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Modification and Waiver

Modification Without Consent of Holders. We and the applicable Trustee may, from time to time and at any time, enter into supplemental indentures without the consent of the holders of debt securities of a series to:

convey, transfer, assign, mortgage or pledge to the applicable Trustee as security for the debt securities of one or more series any property or assets;

evidence the assumption by a successor corporation of our obligations;

add covenants for the protection of the holders of such debt securities and to make the occurrence, or the occurrence and continuance, of a default in any such additional covenants, restrictions, conditions or provisions an event of default permitting the enforcement of all or any of the several remedies provided in the Indentures; provided, that in respect of any such addition we may provide for a different grace period after default, may provide for an immediate enforcement, or may limit the remedies available to the applicable Trustee or may limit the right of the holders of a majority in aggregate principal amount of the debt securities of such series to waive such an event of default;

cure any ambiguity or correct or supplement any provision contained in the applicable Indenture or in any supplemental indenture which may be defective or inconsistent with any other provision contained in the applicable Indenture or in any supplemental indenture, or to make any other provisions as we may deem necessary or desirable, provided that no action shall adversely affect the interests of the holders of the debt securities;

establish the forms or terms of debt securities of any series as permitted by specific sections of the applicable Indenture; and

evidence and provide for the acceptance of appointment under the applicable Indenture by a successor trustee with respect to the debt securities of one or more series and to add to or change any of the provisions of the applicable Indenture as shall be necessary to provide for or facilitate the administration of the trusts by more than one trustee.

Modification with Consent of Holders. We and the applicable Trustee, with the consent of the holders of not less than a majority in aggregate principal amount of outstanding debt securities of any series, may, from time to time and at any time, enter into supplemental indentures for the purpose of adding any provisions to, or changing in any manner or eliminating any of the provisions of, the applicable Indenture or modifying in any manner the rights of the holders of the debt securities of such series. However, we and the applicable Trustee may not make any of the following changes to any outstanding debt securities without the consent of each holder that would be affected by such change:

extend the final maturity of the principal;

reduce the principal amount;

reduce the rate or extend the time of payment of interest;

reduce any amount payable on redemption;

change the currency in which the principal, premium (if any) or interest thereon is payable;

impair the right of any holder to institute suit for the enforcement of any payment on any debt security when due or, if the debt securities provide therefor, any right of repayment at the option of the holder;

reduce the percentage of debt securities the consent of whose holders is required for modification of the Indenture; or

in the case of the subordinated indenture, modify the provisions of the subordinated indenture with respect to the subordination provisions in a manner adverse to the holders of the subordinated debt securities.

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Subordination

The subordinated indenture provides that the subordinated debt securities will be subordinated and junior in right of payment to the prior payment in full of all of our senior indebtedness in accordance with the terms therein. In the event of any dissolution, winding-up, liquidation or reorganization of the Company, whether voluntarily or involuntary, or in bankruptcy, insolvency, receivership or other proceedings, then and in any such event the holders of senior indebtedness will be entitled to receive payment in full of all amounts due or to become due on or in respect of all senior indebtedness, or provision will be made for such payment in cash, before the holders of our subordinated debt securities are entitled to receive or retain any payment on account of principal of, or any premium or interest on, our subordinated debt securities. To that end the holders of senior indebtedness will be entitled to receive, for application to the payment thereof, any payment or distribution of any kind or character, which may be payable or deliverable in respect of the subordinated debt securities in any such case, proceeding, dissolution, liquidation or other winding up event, whether in cash, property or securities, including any such payment or distribution which may be payable or deliverable by reason of the payment of any of our other indebtedness being subordinated to the payment of our subordinated debt securities. By reason of such subordination, in the event of liquidation or insolvency of the Company, holders of senior indebtedness and holders of our other obligations that are not subordinated to senior indebtedness may recover more, ratably, than the holders of our subordinated debt securities.

Subject to the payment in full of all senior indebtedness, the rights of the holders of our subordinated debt securities will be subrogated to the rights of the holders of the senior indebtedness to receive payments or distributions of cash, property or securities of the Company applicable to such senior indebtedness by virtue of such subordination until the principal of, and any premium and interest on, our subordinated debt securities have been paid in full.

No payment of principal (including redemption and sinking fund payments) of, or any premium or interest on, our subordinated debt securities may be made (1) in the event and during the continuation of any default by us in the payment of principal, premium, interest or any other amount due on any of our senior indebtedness or (2) if the maturity of any our senior indebtedness has been accelerated because of a default.

Our subordinated indenture does not limit or prohibit us from incurring additional senior indebtedness, which may include indebtedness that is senior to our subordinated debt securities, but subordinate to our other obligations. Our senior debt securities will constitute senior indebtedness under our subordinated indenture.

The term *senior indebtedness* means:

- (1) all of our obligations for borrowed or purchased money;
- (2) all of our obligations arising from off-balance sheet guarantees and direct credit substitutes;
- (3) all of our capital lease obligations;
- (4) all of our obligations issued or assumed as the deferred purchase price of property, all of our conditional sale obligations and all of our obligations under any conditional sale or title retention agreement, but excluding trade accounts payable arising in the ordinary course of business;

- (5) all of our obligations, contingent or otherwise, in respect of any letters of credit, banker's acceptances, security purchase facilities or similar credit transactions;
- (6) all of our obligations associated with derivative products such as interest rate and foreign exchange contracts, commodity contracts and similar arrangements;
- (7) all of our obligations of the type referred to in clauses (1) through (6) above of other persons for the payment of which the Company is responsible or liable as obligor, guarantor or otherwise; and
- (8) all of our obligations of the type referred to in clauses (1) through (7) above of other persons secured by any lien on any property or asset, whether or not such obligation is assumed by the Company,

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in each case, whether outstanding on the date the subordinated indenture became effective, or created, assumed or incurred after that date, except for:

- (a) the subordinated debt securities; and
- (b) any indebtedness or any guarantee that is by its terms subordinated to, or ranks equally with, the subordinated debt securities and the issuance of which (x) has received the concurrence or approval of the staff of the Federal Reserve Bank of New York or the staff of the Board of Governors of the Federal Reserve System or (y) does not at the time of issuance prevent the subordinated debt securities from qualifying for Tier 2 capital treatment (irrespective of any limits on the amount of the Company's Tier 2 capital) under the applicable capital adequacy guidelines, regulations, policies or published interpretations of the Board of Governors of the Federal Reserve System.

The subordinated indenture provides that the foregoing subordination provisions, insofar as they relate to any particular issue of our subordinated debt securities, may be changed prior to such issuance. Any such change would be described in the related prospectus supplement.

Book Entry System, Delivery and Form

We may issue the debt securities in whole or in part in the form of one or more global securities that will be deposited with, or on behalf of, a depository identified in the applicable prospectus supplement. We may issue the global securities in either registered or bearer form and in either temporary or permanent form. Unless and until it is exchanged in whole or in part for individual certificates evidencing debt securities, a global debt security may not be transferred except as a whole by the depository to its nominee or by the nominee to the depository, or by the depository or its nominee to a successor depository or to a nominee of the successor depository.

We anticipate that global debt securities will be deposited with, or on behalf of, The Depository Trust Company and that global debt securities will be registered in the name of DTC's nominee, Cede & Co. Holders may hold their interests in a global security directly through Euroclear Bank SA/NV, as operator of the Euroclear System (Euroclear) and Clearstream Banking, S.A. (Clearstream), if they are participants in such systems, or indirectly through organizations that are participants in such systems. Euroclear and Clearstream will hold interests in a global security on behalf of their participants through their respective depositories, which in turn will hold such interests in the global security in customers' securities accounts in the depositories' names on the books of DTC. We also anticipate that the following provisions will apply to the depository arrangements with respect to global debt securities. Additional or differing terms of the depository arrangements will be described in the applicable prospectus supplement.

DTC has advised us that it is:

- a limited-purpose trust company organized under the New York Banking Law;
- a banking organization within the meaning of the New York Banking Law;

a member of the Federal Reserve System;

a clearing corporation within the meaning of the New York Uniform Commercial Code; and

a clearing agency registered pursuant to the provisions of Section 17A of the Exchange Act.

DTC was created to hold securities of institutions that have accounts with DTC, referred to as participants, and to facilitate the clearance and settlement of securities transactions among its participants in such securities through electronic book-entry transfers and pledges between participants' accounts, thereby eliminating the need for physical movement of securities certificates. DTC's participants include both U.S. and non-U.S. securities brokers and dealers, banks, trust companies, clearing corporations and certain other

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organizations. Access to DTC's book-entry system is also available to others such as banks, brokers, dealers and trust companies, referred to as the indirect participants, that clear through or maintain a custodial relationship with a participant, whether directly or indirectly. The DTC rules applicable to its participants are on file with the SEC.

We expect that, pursuant to procedures established by DTC upon the deposit of a global security with DTC, DTC will credit, on its book-entry registration and transfer system, the principal amount of securities represented by such global security to the accounts of participants. The accounts to be credited shall be designated by us. Ownership of beneficial interests in the global security will be limited to participants or persons that may hold interests through participants. Ownership of beneficial interests in the global security will be shown on, and the transfer of those beneficial interests will be effected only through, records maintained by DTC (with respect to participants' interests), the participants and the indirect participants. The laws of some jurisdictions may require that certain purchasers of securities take physical delivery of such securities in definitive form. These limits and laws may impair the ability to transfer or pledge beneficial interests in the global security.

So long as DTC, or its nominee, is the registered owner or holder of a global security, DTC or its nominee, as the case may be, will be considered the sole owner or holder of the debt securities represented by the global security for all purposes under the applicable Indenture and debt securities. In addition, no owner of a beneficial interest in a global security will be able to transfer that interest except in accordance with the applicable procedures of DTC. Except as set forth below, as an owner of a beneficial interest in the global security, you will not be entitled to have the debt securities represented by the global security registered in your name, will not receive or be entitled to receive physical delivery of certificated securities and will not be considered to be the owner or holder of any debt securities under the global security. We understand that under existing industry practice, if an owner of a beneficial interest in the global security desires to take any action that DTC, as the holder of the global security, is entitled to take, DTC would authorize the participants to take such action, and the participants would authorize beneficial owners owning through such participants to take such action or would otherwise act upon the instructions of beneficial owners owning through them.

We will make payments of principal, premium or interest on the debt securities represented by a global security registered in the name of and held by DTC or its nominee to DTC or its nominee, as the case may be, as the registered owner and holder of the global security. Neither we, the applicable Trustee nor any paying agent will have any responsibility or liability for any aspect of the records relating to or payments made on account of beneficial interests in the global security or for maintaining, supervising or reviewing any records relating to such beneficial interests.

We expect that DTC or its nominee, upon receipt of any payment of principal of, and premium, if any, or any interest amounts on, a global security, will credit participants' accounts with payments in amounts proportionate to their respective beneficial interests in the principal amount of the global security as shown on the records of DTC or its nominee. We also expect that payments by participants or indirect participants to owners of beneficial interests in the global security held through such participants or indirect participants will be governed by standing instructions and customary practices and will be the responsibility of such participants or indirect participants, subject to any statutory or regulatory requirements as may be in effect from time to time. We will not have any responsibility or liability for any aspect of the records relating to, or payments made on account of, beneficial interests in the global security for any note or for maintaining, supervising or reviewing any records relating to such beneficial interests or for any other aspect of the relationship between DTC and its participants or indirect participants or the relationship between such participants or indirect participants and the owners of beneficial interests in the global security owning through such participants.

Transfers between participants in DTC will be effected in the ordinary way in accordance with DTC rules and will be settled in same-day funds. Transfers between participants in Euroclear and Clearstream will be effected in the ordinary

way in accordance with their respective rules and operating procedures. Cross-market transfers between DTC, on the one hand, and directly or indirectly through Euroclear or Clearstream participants,

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on the other, will be effected by DTC in accordance with DTC rules on behalf of Euroclear or Clearstream, as the case may be, by its respective depository; however, such cross-market transactions will require delivery of instructions to Euroclear or Clearstream, as the case may be, by the counterparty in such system in accordance with its rules and procedures and within its established deadlines (Brussels time). Euroclear or Clearstream, as the case may be, will, if the transaction meets its settlement requirements, deliver instructions to its respective depository to take action to effect final settlement on its behalf by delivering or receiving interests in a global security in DTC, and making or receiving payment in accordance with normal procedures for same-day funds settlement applicable to DTC. Euroclear participants and Clearstream participants may not deliver instructions directly to the depositories for Euroclear or Clearstream.

Because of the time zone differences, the securities account of a Euroclear or Clearstream participant purchasing an interest in the global security from a DTC participant will be credited during the securities settlement processing day (which must be a business day for Euroclear or Clearstream, as the case may be) immediately following the DTC settlement date, and such credit of any transaction's interests in the global security settled during such processing day will be reported to the relevant Euroclear or Clearstream participant on such day. Cash received in Euroclear or Clearstream as a result of sales of interests in a global security by or through a Euroclear or Clearstream participant to a DTC participant will be received with value on the DTC settlement date, but will be available in the relevant Euroclear or Clearstream cash account only as of the business day following settlement in DTC.

Euroclear and Clearstream hold securities for participating organizations. They also facilitate the clearance and settlement of securities transactions between their respective participants through electronic book-entry changes in the accounts of such participants. Euroclear and Clearstream provide various services to their participants, including the safekeeping, administration, clearance, settlement, lending and borrowing of internationally traded securities. Euroclear and Clearstream interface with domestic securities markets. Euroclear and Clearstream participants are financial institutions such as underwriters, securities brokers and dealers, banks, trust companies and certain other organizations. Indirect access to Euroclear or Clearstream is also available to others such as banks, brokers, dealers and trust companies that clear through or maintain a custodial relationship with a Euroclear or Clearstream participant, either directly or indirectly.

DTC has advised us that it will take any action permitted to be taken by a holder of debt securities only at the direction of one or more participants to whose account the DTC interests in the global security is credited and only in respect of such portion of the aggregate principal amount of debt securities as to which such participant or participants has or have given such direction. However, if DTC notifies us that it is unwilling to be a depository for a global security or ceases to be a clearing agency or there is an event of default under the debt securities relating to that global security, DTC will exchange the global security for certificated securities which it will distribute to its participants.

Although we expect that DTC, Euroclear and Clearstream will follow the foregoing procedures in order to facilitate transfers of interests in the global security among participants of DTC, Euroclear and Clearstream, DTC, Euroclear and Clearstream are under no obligation to perform or continue to perform such procedures, and such procedures may be discontinued at any time. Neither we nor the trustee will have any responsibility for the performance by DTC, Euroclear or Clearstream or their participants or indirect participants of their respective obligations under the rules and procedures governing their operations.

The information in this section concerning DTC and DTC's book-entry system, as well as information regarding Euroclear and Clearstream, has been obtained from sources that we believe to be reliable, but we do not take any responsibility for its accuracy or completeness. We assume no responsibility for the performance by DTC, Euroclear, Clearstream or their respective participants of their respective obligations, including obligations that they have under the rules and procedures that govern their operations.

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Governing Law

Our senior indenture and our subordinated indenture are and any debt securities issued under either Indenture will be, governed by, and construed in accordance with, the laws of the State of New York, except as may otherwise be required by mandatory provisions of law.

Concerning our Relationship with the Trustees

U.S. Bank National Association is the trustee of the Discover Card Execution Note Trust and the Discover Card Master Trust I under Discover Bank's amended and restated pooling and servicing agreement, and the trustee of The Student Loan Corporation's two securitization trusts.

DESCRIPTION OF CAPITAL STOCK

We have provided below a summary description of our capital stock. This description is not complete, and is qualified in its entirety by reference to the full text of our amended and restated certificate of incorporation and bylaws. You should read the full text of our amended and restated certificate of incorporation and bylaws, as well as the provisions of applicable Delaware law.

General

Under our amended and restated certificate of incorporation, we have authority to issue 2,000,000,000 shares of common stock, par value \$0.01 per share, and 200,000,000 shares of preferred stock, par value \$0.01 per share. As of June 20, 2018, 344,615,887 shares of our common stock were outstanding and 5,700 shares of our preferred stock, consisting of our Series C Preferred Stock described below, were outstanding.

Offered and Existing Common Stock

General. The rights, preferences and privileges of holders of our common stock are subject to, and may be adversely affected by, the rights of the holders of shares of any series of our preferred stock.

Voting Rights. The holders of our common stock are entitled to one vote per share on all matters to be voted on by stockholders. Holders of shares of common stock are not entitled to cumulate their votes in the election of directors. Generally, all matters to be voted on by stockholders must be approved by a majority of the votes entitled to be cast by the holders of common stock present in person or represented by proxy, voting together as a single class, subject to any voting rights granted to holders of any preferred stock.

Dividend Rights. Holders of common stock will share equally on a pro rata basis in any dividends as may be declared by our board of directors out of funds legally available for that purpose, subject to any preferential rights of holders of any outstanding shares of preferred stock and any other class or series of stock having preference over the common stock as to dividends.

Preemptive Rights. No shares of common stock are subject to redemption or have preemptive rights to purchase additional shares of common stock or other securities of our company. There are no other subscription rights or conversion rights, and there are no sinking fund provisions applicable to our common stock.

Other Rights. Upon voluntary or involuntary liquidation, dissolution or winding up of our company, after payment in full of the amounts required to be paid to creditors and holders of any preferred stock that may be then outstanding, all

holders of common stock are entitled to share equally on a pro rata basis in all remaining assets.

Listing. Our shares of common stock are listed on the New York Stock Exchange under the ticker DFS.

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Transfer Agent and Registrar. The transfer agent and registrar for our common stock is Computershare.

Existing Preferred Stock

On October 31, 2017, Discover Financial Services issued and sold 570,000 depositary shares, each representing a 1/100th interest in a share of Fixed-to-Floating Rate Non-Cumulative Perpetual Preferred Stock, Series C, par value \$0.01 per share, with a liquidation preference of \$1,000 per depositary share (equivalent to \$100,000 per share of Series C Preferred Stock) (the Existing Preferred Stock).

Rank. The Existing Preferred Stock ranks senior to our common stock and at least equally with each other series of preferred stock we may issue if provided for in the certificate of designations relating to such preferred stock or otherwise (except for any senior stock that may be issued with the requisite consent of the holders of the Existing Preferred Stock and all other parity stock, if any), with respect to the payment of dividends and distributions of assets upon liquidation, dissolution or winding up. In addition, we will generally be able to pay dividends and distributions upon liquidation, dissolution or winding up only out of lawfully available assets for such payment after satisfaction of all claims for indebtedness and other non-equity claims. The shares of the Existing Preferred Stock are fully paid and nonassessable and have no preemptive rights.

Conversion. The Existing Preferred Stock is not convertible into, or exchangeable for, common stock or other securities of ours.

Dividends. Holders of Existing Preferred Stock are entitled to receive, when, as, and if declared by our board of directors or a duly authorized committee of our board of directors, cash dividends payable from, and including, the date of issuance to, but excluding, October 30, 2027 semi-annually at a rate of 5.500% per annum and from, and including, October 30, 2027 and thereafter quarterly at a floating rate equal to three-month LIBOR plus a spread of 3.076% per annum.

Dividends on the Existing Preferred Stock will not be cumulative. If our board of directors or a duly authorized committee of our board of directors does not declare a dividend on the Existing Preferred Stock in respect of a dividend period before the related dividend payment date, then Discover Financial Services will have no obligation to pay any dividend for that dividend period, whether or not our board of directors or a duly authorized committee of our board of directors declares a dividend on the Existing Preferred Stock for any future dividend period.

We will not declare or pay or set apart funds for the payment of dividends on any securities which rank equally with the Existing Preferred Stock (parity stock), if any, unless we have paid or set apart funds for the payment of dividends on the Existing Preferred Stock. When dividends are not paid in full upon the shares of Existing Preferred Stock and parity stock, if any, all dividends declared upon shares of Existing Preferred Stock and parity stock, if any, will be declared on a proportional basis so that the amount of dividends declared per share will bear to each other the same ratio that accrued dividends for the then-current dividend period per share on Existing Preferred Stock, and accrued dividends, including any accumulations, if any, on parity stock, if any, bear to each other.

Subject to some additional exceptions set forth in the certificate of designations for the Existing Preferred Stock, unless we have paid full accrued dividends on the outstanding shares of the Existing Preferred Stock for the latest dividend payment period, we may not during a dividend period:

declare or pay a dividend or distribution on common stock or any preferred stock that ranks junior to the Existing Preferred Stock as to dividend rights and as to rights on liquidation, dissolution or winding up, or

redeem, purchase, or otherwise acquire our common stock or any preferred stock that ranks junior to the Existing Preferred Stock as to dividend rights and as to rights on liquidation, dissolution or winding up.

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Redemption. The Existing Preferred Stock is not subject to any mandatory redemption, sinking fund or other similar provisions. The Existing Preferred Stock is redeemable, at our option, (i) in whole or in part, from time to time, on any dividend payment date on or after October 30, 2027 or (ii) in whole but not in part, at any time within 90 days of certain changes to regulatory capital requirements.

Liquidation Rights. In the event we liquidate, dissolve or wind-up our business and affairs, either voluntarily or involuntarily, holders of the Existing Preferred Stock are entitled to receive a liquidating distribution of \$100,000 per share (equivalent to \$1,000 per depositary share), plus any declared and unpaid dividends, without regard to any undeclared dividends before we make any distribution of assets to the holders of our common stock or any other class or series of shares ranking junior to the Existing Preferred Stock. Distributions will be made only to the extent of Discover Financial Services' assets that are available after satisfaction of all liabilities to creditors and subject to the rights of holders of any securities ranking senior to the Existing Preferred Stock.

In any such distribution, if the assets of Discover Financial Services are not sufficient to pay the liquidation preferences plus declared and unpaid dividends in full to all holders of the Existing Preferred Stock and all holders of parity stock, if any, as to such distribution with the Existing Preferred Stock, the amounts paid to the holders of Existing Preferred Stock and parity stock, if any, will be paid *pro rata* in accordance with the respective aggregate liquidating distribution owed to those holders. After we have paid the full amount of the liquidating distribution to which they are entitled, the holders of the Existing Preferred Stock will not be entitled to any further participation in any distribution of assets by Discover Financial Services.

Voting Rights. Except as provided below, the holders of the Existing Preferred Stock have no voting rights.

Right to Elect Two Directors Upon Nonpayment. If we fail to pay, or declare and set apart for payment, dividends on outstanding shares of the Existing Preferred Stock for six quarterly dividend periods, whether or not consecutive, the number of directors on the board of directors of Discover Financial Services shall be increased by two at its first annual meeting of the shareholders held thereafter, and at such meeting and at each subsequent annual meeting, the holders of shares of Existing Preferred Stock shall have the right, voting separately as a class together with holders of any other equally ranked series of preferred stock that have similar voting rights, if any, to elect such two additional members of the board of directors of Discover Financial Services to hold office for a term of one year. These voting rights will continue for the Existing Preferred Stock until dividends on such shares have been fully paid (or declared and a sum sufficient for the payment of such dividends shall have been set aside for such payment) for at least one year following the non-payment. The term of office of all directors elected by the holders of the Existing Preferred Stock will terminate immediately upon the termination of the right of holders of the Existing Preferred Stock to vote for directors.

Other Voting Rights. So long as any shares of Existing Preferred Stock remain outstanding, the affirmative vote or consent of the holders of at least two-thirds of all outstanding shares of the Existing Preferred Stock, voting separately as a class, shall be required to:

authorize or increase the authorized amount of, or issue shares of, any class or series of stock ranking senior to the Existing Preferred Stock, or issue any obligation or security convertible into or evidencing the right to purchase any such shares;

amend the provisions of the amended and restated certificate of incorporation of Discover Financial Services so as to adversely affect the powers, preferences, privileges or rights of the Existing Preferred Stock, taken as a whole; provided, however, that any increase in the amount of the authorized or issued Existing Preferred Stock or authorized common stock or preferred stock or the creation and issuance, or an increase in the authorized or issued amount, of other series of preferred stock ranking equally with or junior to the Existing Preferred Stock with respect to the payment of dividends (whether such dividends are cumulative or non-cumulative) or the distribution of assets upon liquidation, dissolution or winding up of Discover Financial Services will not be deemed to adversely affect the powers, preferences, privileges or rights of the Existing Preferred Stock; or

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consummate a binding share-exchange or reclassification involving the Existing Preferred Stock, or a merger or consolidation of Discover Financial Services with or into another entity unless (i) the shares of the Existing Preferred Stock remain outstanding or are converted into or exchanged for preference securities of the new surviving entity and (ii) the shares of the remaining Existing Preferred Stock or new preferred securities have terms that are not materially less favorable than the Existing Preferred Stock.

Offered Preferred Stock

Our board of directors has the authority, without action by our stockholders, to designate and issue our preferred stock in one or more series and to designate the rights, preferences and privileges of each series, which may be greater than the rights of our common stock. It is not possible to state the actual effect of the issuance of any shares of our preferred stock upon the rights of holders of our common stock until our board of directors determines the specific rights of the holders of our preferred stock. The material terms of any series of preferred stock that we offer through a prospectus supplement will be described in that prospectus supplement. However, the effects might include, among other things:

restricting dividends on our common stock;

diluting the voting power of our common stock;

impairing the liquidation rights of our common stock; or

delaying or preventing a change in control of our company without further action by our stockholders.

Anti-Takeover Effects of Our Amended and Restated Certificate of Incorporation and Bylaws, Delaware Law and Federal Banking Law

Some provisions of Delaware law and our amended and restated certificate of incorporation and bylaws could make the following more difficult:

acquisition of us by means of a tender offer or merger;

acquisition of us by means of a proxy contest or otherwise; or

removal of our incumbent officers and directors.

These provisions, summarized below, are expected to discourage coercive takeover practices and inadequate takeover bids. These provisions also are designed to encourage persons seeking to acquire control of us to first negotiate with our board of directors. We believe that the benefits of the potential ability to negotiate with the proponent of an unfriendly or unsolicited proposal to acquire or restructure our company outweigh the disadvantages of discouraging those proposals because negotiation of them could result in an improvement of their terms.

Stockholder Action by Written Consent. Subject to the rights of holders of any series of preferred stock or any other series or class of stock, any action required or permitted to be taken by our stockholders must be effected at a duly called annual or special meeting of stockholders and may not be effected by any consent in writing in lieu of a meeting.

Amendments to our Governing Documents. The amendment of any provision of our amended and restated certificate of incorporation requires approval by our board of directors and a majority vote of stockholders, other than any amendment to the provisions requiring that amendments to our bylaws require the approval of either a majority of our board of directors or holders of at least 80% of the votes entitled to be cast by the outstanding capital stock in the election of our board of directors, for which an amendment requires the approval by our board and holders of at least 80% of the votes entitled to be cast by the outstanding capital stock in the election of our board of directors. Any amendment to our bylaws requires the approval of either a majority of our board of

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directors or holders of at least 80% of the votes entitled to be cast by the outstanding capital stock in the election of our board of directors.

Stockholder Meetings. Our amended and restated bylaws provide that, subject to the rights of holders of any series of preferred stock or any other series or class of stock as set forth in our amended and restated certificate of incorporation, special meetings of our stockholders may be called only by our secretary at the direction of and pursuant to a resolution of our board of directors.

Requirements for Advance Notification of Stockholder Nominations and Proposals. Our amended and restated bylaws establish advance notice procedures with respect to stockholder proposals and nomination of candidates for election as directors.

Delaware Anti-Takeover Law. Our amended and restated certificate of incorporation does not exempt us from the application of Section 203 of the Delaware General Corporation Law, an anti-takeover law.

In general, Section 203 prohibits a publicly held Delaware corporation from engaging in a business combination with an interested stockholder for a period of three years following the date the person became an interested stockholder, unless the business combination or the transaction in which the person became an interested stockholder is approved in a prescribed manner. Generally, a business combination includes a merger, asset or stock sale, or other transaction resulting in a financial benefit to the interested stockholder. Generally, an interested stockholder is a person that, together with affiliates and associates, owns, or within three years prior to the determination of interested stockholder status, did own, 15% or more of a corporation's voting stock. This may have an anti-takeover effect with respect to transactions not approved in advance by our board of directors, including discouraging attempts that might result in a premium over the market price for the shares of our common stock.

No Cumulative Voting. Our amended and restated certificate of incorporation and bylaws do not provide for cumulative voting in the election of directors.

Undesignated Preferred Stock. The authorization of our undesignated preferred stock makes it possible for our board of directors to issue our preferred stock with voting or other rights or preferences that could impede the success of any attempt to change control of us. These and other provisions may have the effect of deferring hostile takeovers or delaying changes of control of our management.

Federal Banking Law. The Change in Bank Control Act of 1978, as amended, prohibits a person or group of persons from acquiring control of a bank holding company unless:

the Federal Reserve has been given 60 days prior written notice of such proposed acquisition containing the information requested by the Federal Reserve; and

within that time period the Federal Reserve has not issued a notice disapproving the proposed acquisition or extending the period during which such a disapproval may be issued.

An acquisition may be made prior to the expiration of the disapproval period if the Federal Reserve issues written notice of its intent not to disapprove the action. An acquirer is conclusively deemed to have acquired control if it owns, controls, or has the power to vote 25 percent or more of a class of voting securities. In addition, under a rebuttable presumption established by the Federal Reserve, the acquisition of 10% or more of a class of voting

securities of a bank holding company with securities registered under Section 12 of the Exchange Act, such as us, would be presumed to constitute the acquisition of control. In addition, any company would be required to obtain the approval of the Federal Reserve under the Bank Holding Company Act of 1956, as amended, before acquiring 25% (5% in the case of an acquiror that is, or is deemed to be, a bank holding company) or more of any class of voting securities, or a lesser number of shares if the acquirer otherwise is deemed to have control over us by the Federal Reserve, and may be subject to ongoing regulation and supervision as a bank holding company.

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DESCRIPTION OF DEPOSITARY SHARES

General

We may offer depositary receipts for depositary shares, each of which will represent a fractional interest in a share of a particular series of a class of our preferred stock, as specified in the applicable prospectus supplement. Preferred stock of each series of each class represented by depositary shares will be deposited under a separate deposit agreement among us, the preferred stock depositary named in the deposit agreement and the holders from time to time of our depositary receipts. Subject to the terms of the deposit agreement, each owner of a depositary receipt will be entitled, in proportion to the fractional interest of a share of the particular series of a class of our preferred stock represented by the depositary shares evidenced by such depositary receipt, to all the rights and preferences of the preferred stock represented by such depositary shares (including dividend, voting, conversion, redemption and liquidation rights).

The depositary shares will be evidenced by depositary receipts issued pursuant to the applicable deposit agreement. Immediately following our issuance and delivery of the preferred stock to the preferred stock depositary, we will cause the preferred stock depositary to issue, on our behalf, the depositary receipts. Copies of the applicable form of deposit agreement and depositary receipt may be obtained from us upon request.

Dividends and Other Distributions

The preferred stock depositary will distribute all cash dividends or other cash distributions received in respect of the preferred stock to the record holders of the depositary receipts evidencing the related depositary shares in proportion to the number of such depositary receipts owned by such holder, subject to certain obligations of holders to file proofs, certificates and other information and to pay certain charges and expenses to the preferred stock depositary.

In the event of a distribution other than in cash, the preferred stock depositary will distribute property received by it to the record holders of depositary receipts entitled to the property, subject to certain obligations of holders to file proofs, certificates and other information and to pay certain charges and expenses to the preferred stock depositary, unless the preferred stock depositary determines that it is not feasible to make such distribution, in which case the preferred stock depositary may, with our approval, sell such property and distribute the net proceeds from such sale to such holders.

Withdrawal of Shares

Upon surrender of the depositary receipts at the corporate trust office of the preferred stock depositary (unless the related depositary shares have previously been called for redemption), the holders of the depositary receipts will be entitled to delivery at such office, to or upon such holder's order, of the number of whole shares of preferred stock and any money or other property represented by the depositary shares evidenced by such depositary receipts. Holders of depositary receipts will be entitled to receive whole shares of the related preferred stock on the basis of the proportion of preferred stock represented by each depositary share as specified in the applicable prospectus supplement, but holders of such preferred stock will not thereafter be entitled to receive depositary shares. If the depositary receipts delivered by the holder evidence a number of depositary shares in excess of the number of depositary shares representing the number of shares of preferred stock to be withdrawn, the preferred stock depositary will deliver to such holder at the same time a new depositary receipt evidencing such excess number of depositary shares.

Redemption of Depositary Shares

Whenever we redeem preferred stock held by the preferred stock depositary, the preferred stock depositary will redeem as of the same redemption date the number of depositary shares representing the preferred stock so

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redeemed, provided we shall have paid in full to the preferred stock depositary the redemption price of the preferred stock to be redeemed plus an amount equal to any accrued and unpaid dividends (except, with respect to noncumulative shares of preferred stock, dividends for the current dividend period only) of the preferred stock to the date fixed for redemption. The redemption price per depositary share will be equal to the redemption price and any other amounts per share payable with respect to the preferred stock. If less than all the depositary shares are to be redeemed, the preferred stock depositary will select the depositary shares to be redeemed by lot.

After the date fixed for redemption, the depositary shares so called for redemption will no longer be deemed to be outstanding and all rights of the holders of the depositary receipts evidencing the depositary shares so called for redemption will cease, except the right to receive any moneys payable upon such redemption and any money or other property to which the holders of such depositary receipts were entitled upon such redemption upon surrender of the depositary receipts to the preferred stock depositary.

Voting of the Underlying Preferred Stock

Upon receipt of notice of any meeting at which the holders of our preferred stock are entitled to vote, the preferred stock depositary will mail the information contained in such notice of meeting to the record holders of the depositary receipts evidencing the depositary shares which represent such preferred stock. Each record holder of depositary receipts evidencing depositary shares on the record date (which will be the same date as the record date for the preferred stock) will be entitled to instruct the preferred stock depositary as to the exercise of the voting rights pertaining to the amount of preferred stock represented by such holder's depositary shares. The preferred stock depositary will vote the amount of preferred stock represented by such depositary shares in accordance with such instructions, and we will agree to take all reasonable action which may be deemed necessary by the preferred stock depositary in order to enable the preferred stock depositary to do so. The preferred stock depositary will abstain from voting the amount of preferred stock represented by such depositary shares to the extent it does not receive specific instructions from holders of our depositary receipts evidencing such depositary shares.

Liquidation Preference

In the event of our liquidation, dissolution or winding up, whether voluntary or involuntary, each holder of our depositary receipts will be entitled to the fraction of the liquidation preference accorded each share of preferred stock represented by the depositary share evidenced by such depositary receipt, as set forth in the applicable prospectus supplement.

Conversion of Preferred Stock

The depositary shares, as such, are not convertible into our common stock or any of our securities or property. Nevertheless, if so specified in the applicable prospectus supplement relating to an offering of depositary shares, the depositary receipts may be surrendered by depositary receipt holders to the preferred stock depositary with written instructions to the preferred stock depositary instructing us to cause conversion of our preferred stock represented by the depositary shares evidenced by such depositary receipts into whole shares of common stock, other preferred stock or other shares of our capital stock, and we have agreed that upon receipt of such instructions and any amounts payable in respect of such instructions, we will cause the conversion of the preferred stock represented by depositary shares utilizing the same procedures as those provided for delivery of preferred stock to effect such conversion. If the depositary shares evidenced by a depositary receipt are to be converted in part only, one or more new depositary receipts will be issued for any depositary shares not to be converted. No fractional shares of our common stock will be issued upon conversion, and if such conversion will result in a fractional share being issued, an amount will be paid in cash by us equal to the value of the fractional interest based upon the closing price of our common stock on the last

business day prior to the conversion.

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Amendment and Termination of the Deposit Agreement

The form of depositary receipt evidencing the depositary shares which represent the preferred stock and any provision of the deposit agreement may at any time be amended by agreement between us and the preferred stock depositary. However, any amendment that materially and adversely alters the rights of the holders of depositary receipts will not be effective unless such amendment has been approved by the existing holders of at least a majority of our depositary shares evidenced by the depositary receipts then outstanding.

The deposit agreement may be terminated by us upon not less than 30 days prior written notice to the preferred stock depositary if a majority of the holders of each class of our depositary shares affected by such termination consents to such termination, whereupon the preferred stock depositary shall deliver or make available to each holder of depositary receipts, upon surrender of the depositary receipts held by such holder, such number of whole or fractional shares of our preferred stock as are represented by the depositary shares evidenced by such depositary receipts. In addition, the deposit agreement will automatically terminate if:

all outstanding depositary shares shall have been redeemed;

there shall have been a final distribution in respect of the related preferred stock in connection with any liquidation, dissolution or winding up of us and such distribution shall have been distributed to the holders of depositary receipts evidencing the depositary shares representing such preferred stock; or

each related share of preferred stock shall have been converted into our capital stock not so represented by depositary shares.

Charges of Preferred Stock Depositary

We will pay all transfer and other taxes and governmental charges arising solely from the existence of the deposit agreement. In addition, we will pay the fees and expenses of the preferred stock depositary in connection with the performance of its duties under the deposit agreement. However, holders of our depositary receipts will pay the fees and expenses of the preferred stock depositary for any duties requested by such holders to be performed which are outside of those expressly provided for in the deposit agreement.

Resignation and Removal of Preferred Stock Depositary

The preferred stock depositary may resign at any time by delivering to us notice of its election to do so, and we may at any time remove the preferred stock depositary. Any such resignation or removal shall take effect upon the appointment of a preferred stock depositary successor. A preferred stock depositary successor must be appointed within 60 days after delivery of the notice of resignation or removal and must be a bank or trust company having its principal office in the United States and having a combined capital and surplus of at least \$50,000,000.

Miscellaneous

The preferred stock depositary will forward to holders of our depositary receipts any reports and communications from us that are received by the preferred stock depositary with respect to the related preferred stock.

Neither we nor the preferred stock depositary will be liable if we are prevented from or delayed in, by law or any circumstances beyond our control, performing our obligations under the deposit agreement. Our obligations and the obligations of the preferred stock depositary under the deposit agreement will be limited to performing our respective duties under the deposit agreement in good faith and without gross negligence or willful misconduct, and neither we nor the preferred stock depositary will be obligated to prosecute or defend any legal proceeding in respect of any depositary receipts, depositary shares or preferred stock represented by the

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depository shares unless satisfactory indemnity is furnished. We and the preferred stock depository may rely on written advice of counsel or accountants, or information provided by persons presenting preferred stock represented by the depository shares for deposit, holders of depository receipts or other persons believed to be competent to give such information, and on documents believed to be genuine and signed by a proper party.

If the preferred stock depository shall receive conflicting claims, requests or instructions from any holders of depository receipts, on the one hand, and us, on the other hand, the preferred stock depository shall be entitled to act on such claims, requests or instructions received from us.

DESCRIPTION OF WARRANTS

We may issue warrants to purchase debt securities, shares of common stock or shares of preferred stock. We may issue warrants independently or together with other securities. Warrants sold with other securities may be attached to or separate from the other securities. We will issue warrants under one or more warrant agreements between us and a warrant agent that we will name in the prospectus supplement.

The prospectus supplement relating to any warrants we are offering will include specific terms relating to the offering. These terms will include some or all of the following:

the title of the warrants;

the aggregate number of warrants offered;

the designation, number and terms of the debt securities, shares of common stock or shares of preferred stock purchasable upon exercise of the warrants and procedures by which those numbers may be adjusted;

the exercise price of the warrants;

the dates or periods during which the warrants are exercisable;

the designation and terms of any securities with which the warrants are issued;

if the warrants are issued as a unit with another security, the date on and after which the warrants and the other security will be separately transferable;

if the exercise price is not payable in U.S. dollars, the foreign currency, currency unit or composite currency in which the exercise price is denominated;

any minimum or maximum amount of warrants that may be exercised at any one time;

any terms relating to the modification of the warrants; and

any terms, procedures and limitations relating to the transferability, exchange or exercise of the warrants. The description in the prospectus supplement will not necessarily be complete, and reference will be made to the warrant agreements which will be filed with the SEC.

DESCRIPTION OF STOCK PURCHASE CONTRACTS AND STOCK PURCHASE UNITS

We may issue stock purchase contracts, including contracts obligating holders to purchase from us, and us to sell to the holders, a specified number of shares of common stock at a future date or dates, which we refer to in this prospectus as Stock Purchase Contracts. The price per share of common stock and number of shares of common stock may be fixed at the time the Stock Purchase Contracts are issued or may be determined by

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reference to a specific formula set forth in the Stock Purchase Contracts. The Stock Purchase Contracts may be issued separately or as a part of units consisting of a Stock Purchase Contract and our debt securities or debt obligations of third parties, securing the holders' obligations to purchase the shares of common stock under the Stock Purchase Contracts, which we refer to in this prospectus as Stock Purchase Units. The Stock Purchase Contracts may require holders to secure their obligations thereunder in a specified manner. The Stock Purchase Contracts also may require us to make periodic payments to the holders of the Stock Purchase Units or vice-versa and such payments may be unsecured or prefunded on some basis.

The applicable prospectus supplement will describe the terms of any Stock Purchase Contracts or Stock Purchase Units. The description in the prospectus supplement will not necessarily be complete, and reference will be made to the Stock Purchase Contracts, and, if applicable, collateral or depositary arrangements, relating to the Stock Purchase Contracts or Stock Purchase Units. Material United States federal income tax considerations applicable to the Stock Purchase Units and the Stock Purchase Contracts will also be discussed in the applicable prospectus supplement.

PLAN OF DISTRIBUTION

We or a selling securityholder may sell the securities inside and outside the United States from time to time (a) through underwriters or dealers, (b) directly to one or more purchasers, including our affiliates, (c) through agents, or (d) through a combination of any of these methods. The applicable prospectus supplement will describe the terms and the method of distribution of these securities, including the following information, if applicable:

the names of any underwriters or agents;

the name or names of any managing underwriter or underwriters;

the purchase price of the securities from us;

the net proceeds to us from the sale of the securities;

any delayed delivery arrangements;

any underwriting discounts, commissions and other items constituting underwriters' compensation;

any initial public offering price;

any discounts or concessions allowed or reallocated or paid to dealers; and

any commissions paid to agents.

General

Underwriters, dealers, agents and remarketing firms that participate in the distribution of the securities may be underwriters as defined in the Securities Act. Any discounts or commissions they receive from us and any profits they receive on the resale of the securities may be treated as underwriting discounts and commissions under the Securities Act. We will identify any underwriters, agents or dealers and describe their commissions, fees or discounts in the applicable prospectus supplement.

Sale Through Underwriters or Dealers

If we use underwriters in a sale, they will acquire the securities for their own account. The underwriters may resell the securities in one or more transactions, including negotiated transactions. These sales will be made at a fixed public offering price or at varying prices determined at the time of the sale.

We may offer the securities to the public through an underwriting syndicate or through a single underwriter.

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Unless the applicable prospectus supplement states otherwise, the obligations of the underwriters to purchase the securities will be subject to certain conditions contained in an underwriting agreement that we will enter into with the underwriters. The underwriters will be obligated to purchase all of the securities of the series offered if any of the securities are purchased, unless the applicable prospectus supplement says otherwise. Any initial public offering price and any discounts or concessions allowed, re-allowed or paid to dealers may be changed from time to time.

If we use dealers in a sale of securities, we will sell the securities to them as principals. They may then resell those securities to the public at varying prices determined by the dealers at the time of resale. We will include in the prospectus supplement the names of the dealers and the terms of the transaction.

Direct Sales and Sales Through Agents

We may choose to sell the securities directly. In this case, no underwriters or agents would be involved. We may also sell the securities through agents we designate from time to time. In the prospectus supplement, we will name any agent involved in the offer or sale of the securities, and we will describe any commissions payable by us to the agent. Unless we inform you otherwise in the prospectus supplement, any agent will agree to use its best efforts to solicit purchases for the period of its appointment.

We may sell the securities directly to institutional investors or others who may be deemed to be underwriters within the meaning of the Securities Act with respect to any sale of those securities. We will describe the terms of any such sales in the prospectus supplement.

Delayed Delivery Contracts

If we so indicate in the prospectus supplement, we may authorize agents, underwriters or dealers to solicit offers from certain types of institutions to purchase securities from us at the public offering price under delayed delivery contracts. These contracts would provide for payment and delivery on a specified date in the future. The contracts would be subject only to those conditions described in the prospectus supplement. The prospectus supplement will describe the commission payable for solicitation of those contracts.

Indemnification

We may have agreements with agents, underwriters, dealers and remarketing firms and each of their respective affiliates to indemnify them against certain civil liabilities, including liabilities under the Securities Act. Agents, underwriters, dealers and remarketing firms, and their affiliates, may engage in transactions with, or perform services for, us in the ordinary course of business. This includes commercial banking and investment banking transactions.

Market Making, Stabilization and Other Transactions

Unless the applicable prospectus supplement states otherwise, each series of securities will be a new issue and will have no established trading market. We may elect to apply to list any series of securities on an exchange. Any underwriters that we use in the sale of securities may make a market in such securities, but may discontinue such market making at any time without notice. Therefore, we cannot assure you that the securities will have a liquid trading market.

In connection with the distribution of the securities offered under this prospectus, we may enter into swap or other hedging transactions with, or arranged by, underwriters or agents or their affiliates, which may include short sales of the securities by counterparties or option, forward or other types of transactions that require delivery of securities to a

counterparty, who may resell or transfer the securities under this prospectus.

Underwriters and others who are deemed to be underwriters under the Securities Act may engage in transactions that stabilize, maintain or otherwise affect the price of the common stock, including the entry of

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stabilizing bids or syndicate covering transactions or the imposition of penalty bids. Any such underwriters and distribution participants may be subject to applicable provisions of the Exchange Act and the associated rules and regulations under the Exchange Act, including Regulation M, which provisions may limit the timing of purchases and sales of shares by the selling securityholders. Furthermore, under Regulation M, persons engaged in a distribution of securities are prohibited from simultaneously engaging in market making and certain other activities with respect to such securities for a specified period of time prior to the commencement of such distributions, subject to special exceptions or exemptions. In addition, the anti-manipulation rules under the Exchange Act may apply to sales of the securities in the market. All of these limitations may affect the marketability of the securities and the ability of any person to engage in market-making activities with respect to the securities.

LEGAL MATTERS

The validity of the securities offered pursuant to this prospectus will be passed upon for us by Sidley Austin LLP, New York, New York.

EXPERTS

The consolidated financial statements incorporated in this prospectus by reference from Discover Financial Services Annual Report on Form 10-K for the year ended December 31, 2017, and the effectiveness of Discover Financial Services' internal control over financial reporting have been audited by Deloitte & Touche LLP, an independent registered public accounting firm, as stated in their reports, which are incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.

WHERE YOU CAN FIND MORE INFORMATION

We file annual, quarterly, and current reports, proxy statements and other information with the SEC. Our SEC filings are available to the public over the Internet at the SEC's web site at <http://www.sec.gov> and on the investor relations page of our website at <http://www.discoverfinancial.com>. The information available at our website does not constitute a part of this prospectus. You may also read and copy any document we file with the SEC at the SEC's Public Reference Room at 100 F Street, N.E., Washington, D.C. 20549. You can also obtain copies of the documents upon the payment of a duplicating fee to the SEC. Please call the SEC at 1-800-SEC-0330 for further information on the operation of the Public Reference Room. You may also request a copy of our SEC filings, or the documents we incorporate by reference herein, at no cost, by writing or telephoning us at:

Discover Financial Services

2500 Lake Cook Road

Riverwoods, Illinois 60015

Attention: Investor Relations

Telephone: (224) 405-0900

This prospectus omits some information contained in the registration statement in accordance with SEC rules and regulations. You should review the information and exhibits included in the registration statement for further information about us and the securities we are offering. Statements in this prospectus concerning any document we

filed as an exhibit to the registration statement or that we otherwise filed with the SEC are not intended to be comprehensive and are qualified by reference to these filings. You should review the complete document to evaluate these statements.

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You should rely only on the information incorporated by reference or provided in this prospectus or any prospectus supplement. We have not authorized anyone else to provide you with different information or to make any representations other than as contained in this prospectus or in any prospectus supplement. We are not making any offer of these securities in any state or jurisdiction where the offer is not permitted.

DOCUMENTS INCORPORATED BY REFERENCE

The SEC allows us to incorporate by reference much of the information that we file with it, which means that we can disclose important information to you by referring you to those publicly available documents. The information that we incorporate by reference is an important part of this prospectus. Any statement contained in a document incorporated or deemed to be incorporated by reference into this prospectus will be deemed to be modified or superseded for purposes of this prospectus to the extent that a statement contained in this prospectus or any other subsequently filed document that is deemed to be incorporated by reference into this prospectus modifies or supersedes the statement. Any statement so modified or superseded will not be deemed, except as so modified or superseded, to constitute a part of this prospectus.

This prospectus incorporates by reference the documents listed below and any filings we make with the SEC under Sections 13(a), 13(c), 14 or 15(d) of the Exchange Act, after the initial filing of the registration statement related to this prospectus until the termination of the offering of the securities described in this prospectus; provided, however, that we are not incorporating by reference any documents, portions of documents or other information that is deemed to have been furnished and not filed with the SEC:

our Annual Report on Form 10-K for the fiscal year ended December 31, 2017;

our Quarterly Report on Form 10-Q for the quarter ended March 31, 2018;

our Current Reports on Form 8-K filed with the SEC on January 24, 2018, February 6, 2018, April 26, 2018 and May 8, 2018; and

the description of our common stock under the heading Description of our Capital Stock, in our Information Statement included with Amendment No. 4 to our Form 10 filed with the SEC on June 1, 2007, including any subsequently filed amendments and reports updating such description.

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% Senior Notes due

Prospectus Supplement

Joint Book-Running Managers

BofA Merrill Lynch

Barclays

Goldman Sachs & Co. LLC

, 2019