

Ceres, Inc.
Form 10-Q
July 10, 2014

UNITED STATES

SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

FORM 10-Q

(Mark One)

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

For the quarterly period ended May 31, 2014

OR

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

For the Transition Period from _____ to _____

Commission File Number: 001-35421

Ceres, Inc.

(Exact name of Registrant as specified in its charter)

Delaware 33-0727287
(State or Other Jurisdiction of (I.R.S. Employer

Incorporation or Organization) Identification Number)

1535 Rancho Conejo Boulevard

Thousand Oaks, CA 91320

(Address of principal executive offices)

Telephone: (805) 376-6500

(Registrant's telephone number, including area code)

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

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

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

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Large accelerated filer

Accelerated filer

..

Non-accelerated filer ☒ (Do not check if a smaller reporting company) Smaller reporting company

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

Under the Jumpstart Our Business Startups Act of 2012, or the JOBS Act, Ceres, Inc. qualifies as an “emerging growth company,” as defined under the JOBS Act.

Indicate the number of shares outstanding of each of the issuer’s classes of common stock, as of the latest practicable date.

Class	Outstanding at July 7, 2014
Common Stock, \$0.01 par value per share	48,193,967

TABLE OF CONTENTS

	Page
<u>PART I: FINANCIAL INFORMATION</u>	2
ITEM 1. <u>Condensed Consolidated Financial Statements (unaudited)</u>	2
ITEM 2. <u>Management's Discussion and Analysis of Financial Condition and Results of Operations</u>	15
ITEM 3. <u>Quantitative and Qualitative Disclosures about Market Risk</u>	24
ITEM 4. <u>Controls and Procedures</u>	24
<u>PART II: OTHER INFORMATION</u>	26
ITEM 1. <u>Legal Proceedings</u>	26
ITEM 1A. <u>Risk Factors</u>	26
ITEM 2. <u>Unregistered Sales of Equity Securities and Use of Proceeds</u>	26
ITEM 3. <u>Defaults Upon Senior Securities</u>	26
ITEM 4. <u>Mine Safety Disclosures</u>	26
ITEM 5. <u>Other Information</u>	26
ITEM 6. <u>Exhibits</u>	26

PART I: FINANCIAL INFORMATION**Item 1. Financial Statements.****CERES, INC. AND SUBSIDIARIES****Condensed Consolidated Balance Sheets****(In thousands, except share amounts and par value)****(Unaudited)**

	May 31, 2014	August 31, 2013
ASSETS		
Current assets:		
Cash and cash equivalents	\$5,890	\$8,881
Marketable securities	24,393	21,630
Prepaid expenses	917	791
Accounts receivable	460	957
Inventories	-	20
Assets held for sale, net	688	-
Other current assets	119	157
Total current assets	32,467	32,436
Property and equipment, net	2,966	4,633
Marketable securities	2,247	-
Other assets	98	109
Total assets	\$37,778	\$37,178
LIABILITIES AND STOCKHOLDERS' EQUITY		
Current liabilities:		
Accounts payable and accrued expenses	\$3,943	\$3,825
Other current liabilities	141	18
Current portion of long-term debt	92	154
Total current liabilities	4,176	3,997
Other non-current liabilities	79	93
Long-term debt, net of current portion	31	82
Total liabilities	4,286	4,172
Commitments and contingencies		
Stockholders' equity:		
	331,841	308,286

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Common stock and additional paid in capital, \$0.01 par value; 240,000,000 shares authorized; 48,204,635 shares issued and outstanding at May 31, 2014; 490,000,000 shares authorized; 24,897,199 shares issued and outstanding at August 31, 2013

Accumulated other comprehensive loss	(608)	(696)
Accumulated deficit	(297,741)	(274,584)
Total stockholders' equity	33,492	33,006
Total liabilities and stockholders' equity	\$37,778	\$37,178

See accompanying notes to the unaudited condensed consolidated financial statements.

CERES, INC. AND SUBSIDIARIES**Condensed Consolidated Statements of Operations****(In thousands, except share and per share amounts)****(Unaudited)**

	Three months ended May 31,		Nine months ended May 31,	
	2014	2013	2014	2013
Revenues:				
Product sales	\$ 163	\$ 389	\$ 229	\$ 462
Collaborative research and government grants	643	966	1,835	3,884
Total revenues	806	1,355	2,064	4,346
Cost and operating expenses:				
Cost of product sales	575	2,134	2,440	5,114
Research and development	3,595	4,074	11,579	12,784
Selling, general and administrative	3,887	4,464	10,732	11,700
Other	464	-	464	-
Total cost and operating expenses	8,521	10,672	25,215	29,598
Loss from operations	(7,715)	) (9,317)	) (23,151)	) (25,252)
Interest expense	(25)	) (34)	) (44)	) (35)
Interest income	13	28	39	106
Loss before income taxes	(7,727)	) (9,323)	) (23,156)	) (25,181)
Income tax expense	-	-	(1)	) (1)
Net loss	\$(7,727)	) \$(9,323)	) \$(23,157)	) \$(25,182)
Basic and diluted net loss per share attributable to common stockholders	\$(0.17)	) \$(0.38)	) \$(0.72)	) \$(1.02)
Weighted average outstanding common shares used for net loss per share :				
Basic and diluted	45,955,818	24,801,705	32,165,265	24,765,664

See accompanying notes to the unaudited condensed consolidated financial statements.

CERES, INC. AND SUBSIDIARIES

Condensed Consolidated Statements of Comprehensive Loss

(In thousands)

(Unaudited)

	Three months ended May 31,		Nine months ended May 31,	
	2014	2013	2014	2013
Net loss	\$ (7,727)	\$ (9,323)	\$ (23,157)	\$ (25,182)
Other comprehensive income (loss)				
Foreign currency translation adjustments	51	152	91	(288)
Net unrealized loss on marketable securities	(12)	(6)	(3)	(1)
Total comprehensive loss	\$ (7,668)	\$ (9,177)	\$ (23,069)	\$ (25,471)

See accompanying notes to the unaudited condensed consolidated financial statements.

CERES, INC. AND SUBSIDIARIES**Condensed Consolidated Statements of Cash Flows****(In thousands)****(Unaudited)**

	Nine months ended May 31,	
	2014	2013
Cash flows from operating activities:		
Net loss	\$(23,157)	\$(25,182)
Adjustments to reconcile net loss to net cash used in operating activities:		
Net (gain) loss on disposal of assets	(108)	166
Loss on assets held for sale	464	-
Depreciation and amortization	1,191	1,464
Amortization of premiums on marketable securities	227	503
Non-cash interest income	(266)	(607)
Stock compensation	2,800	2,461
Changes in operating assets and liabilities:		
Prepaid expenses	(144)	23
Accounts receivable	501	(73)
Inventories	21	295
Other assets	36	53
Accounts payables and accrued expenses	94	(604)
Other liabilities	109	(696)
Other	343	14
Net cash used in operating activities	(17,889)	(22,183)
Cash flows from investing activities:		
Purchases of property and equipment	(628)	(660)
Proceeds from sale of property and equipment	118	-
Purchases of marketable securities	(30,313)	(1,545)
Maturities of marketable securities	25,000	22,379
Net cash (used in) provided by investing activities	(5,823)	20,174
Cash flows from financing activities:		
Repayment of debt	(123)	(286)
Proceeds from issuance of common stock	20,751	56
Net cash provided by (used in) financing activities	20,628	(230)
Effect of foreign currency translation on cash	93	(9)
Net decrease in cash and cash equivalents	(2,991)	(2,248)
Cash and cash equivalents at beginning of period	8,881	21,069

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Cash and cash equivalents at end of period	\$5,890	\$18,821
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See accompanying notes to the unaudited condensed consolidated financial statements.

CERES, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

(In thousands, except share and per share data)

1) The Company

Ceres, Inc. (Company) is an agricultural biotechnology company selling seeds to produce dedicated energy crops—renewable bioenergy feedstocks that can enable the large-scale replacement of petroleum and other fossil fuels. The Company uses a combination of advanced plant breeding and biotechnology to develop seed products.

In January 2010, the Company formed a subsidiary, Ceres Sementes do Brasil Ltda. The Company's ownership in this subsidiary is 99.9% and the Company's Chief Executive Officer owns the remaining interest. In May 2014, the Company formed a wholly owned subsidiary, Ceres Agrotechnologies INTL LLC. In May 2014, the Company also formed a subsidiary, CS Semillas de Mexico, S.de L. de C.V. The Company's ownership in this subsidiary is 99.9% and Ceres Agrotechnologies International LLC owns the remaining interest.

The Company has incurred substantial net losses from operations since its inception and its accumulated deficit as of May 31, 2014 was \$297,741. The Company expects to incur additional losses related to the continued development and expansion of its business, including research and development, seed production and operations, and sales and marketing. During the first quarter of fiscal 2014, management commenced certain actions to extend the Company's available working capital. On October 11, 2013, the Company commenced the implementation of a plan (Plan) intended to further align expenditures with the Company's near-term commercial opportunity in Brazil, shift Northern Hemisphere sorghum breeding activities from College Station, Texas to a more appropriate location, de-emphasize research and development for U.S. cellulosic feedstocks, reduce costs and conserve cash. The actions taken under the Plan, which included, among others, a workforce reduction that impacted 16 positions in the U.S, were substantially completed at May 31, 2014. During the nine months ended May 31, 2014, the Company incurred total charges of approximately \$1,600 with respect to the U.S. workforce reductions, including \$900 of one-time severance expenses, \$400 for continuation of salary and benefits of certain employees until their work was completed and \$300 of other costs. Of the \$1,600 of cash payments made during the nine months ending May 31, 2014, \$1,000, \$500 and \$100 was recorded to research and development expenses, cost of sales and general and administrative expenses, respectively.

On March 10, 2014, the Company completed a registered public offering of 23,000,000 shares of its common stock (including 3,000,000 shares purchased by the underwriter upon the exercise in full of their right to purchase up to an additional 3,000,000 shares to cover over-allotments) at a price to the public of \$1.00 per share. The Company received approximately \$20.8 million of proceeds from the offering, after deducting underwriting discounts and commissions and estimated offering expenses. The Company plans to finance its operations for the next 12-15 months

with existing cash and cash equivalents, marketable securities, proceeds from the registered public offering completed on March 10, 2014, and cash inflows from collaboration and grant funding and from product sales.

(2) Summary of Significant Accounting Policies

Basis of Presentation

The accompanying interim condensed consolidated financial statements have been prepared in accordance with the accounting principles generally accepted in the United States of America (GAAP) and with the instructions for Form 10-Q and Regulation S-X. Accordingly, they do not include all of the information and notes required for complete financial statements. These interim condensed consolidated financial statements should be read in conjunction with the consolidated financial statements and notes thereto contained in the Company's Form 10-K dated November 26, 2013 filed with the Securities and Exchange Commission (SEC).

The accompanying interim condensed consolidated financial statements and related disclosures are unaudited, have been prepared on the same basis as the annual consolidated financial statements and, in the opinion of management, reflect all adjustments, which include only normal recurring adjustments, necessary for a fair presentation of the results of operations for the periods presented. The condensed consolidated results of operations for any interim period are not necessarily indicative of the results to be expected for the full year or for any other future year or interim period.

Principles of Consolidation

The condensed consolidated financial statements include the financial statements of the Company and its subsidiaries. All significant intercompany balances and transactions have been eliminated in consolidation.

CERES, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

(In thousands, except share and per share data)

Use of Estimates

In preparing the unaudited condensed consolidated financial statements, management makes estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities as of the date of the unaudited condensed consolidated financial statements and reported amounts of revenue and expenses during the reporting period. Significant items subject to such estimates and assumptions include the valuation of property and equipment, common stock, stock options and warrant liabilities. Actual results could differ from those estimates.

Fair Value of Financial Instruments

Assets and liabilities recorded at fair value in the condensed consolidated financial statements are categorized based upon the level of judgment associated with the inputs used to measure their fair value. Hierarchical levels that are directly related to the amount of subjectivity associated with the inputs to the valuation of these assets or liabilities are as follows:

Level 1 inputs are quoted prices (unadjusted) in active markets for identical assets or liabilities that the Company has the ability to access at the measurement date.

Level 2 inputs are inputs other than quoted prices included within Level 1 that are observable for the asset or liability, either directly or indirectly.

Level 3 inputs are unobservable inputs for the asset or liability.

The following tables present the Company's financial assets that were measured at fair value on a recurring basis as of May 31, 2014 and August 31, 2013 by level within the fair value hierarchy:

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May 31, 2014

	Level 1	Level 2	Level 3	Total
Financial Assets				
Money Market Funds	\$2,535	\$—	\$	—\$2,535
Certificates of Deposit—available for sale	—	6,141	—	6,141
Commercial Paper—available for sale	—	6,746	—	6,746
Corporate Bonds—available for sale	—	15,253	—	15,253
Total	\$2,535	\$28,140	\$	—\$30,675

All of the money market funds and \$1,500 of the commercial paper are included in cash and cash equivalents on the condensed consolidated balance sheets.

August 31, 2013

	Level 1	Level 2	Level 3	Total
Financial Assets				
Money Market Funds	\$2,310	\$—	\$	—\$2,310
Certificates of Deposit—available for sale	—	4,555	—	4,555
Commercial Paper—available for sale	—	2,198	—	2,198
Corporate Bonds—available for sale	—	16,076	—	16,076
Total	\$2,310	\$22,829	\$	—\$25,139

All of the money market funds and \$1,199 of the commercial paper are included in cash and cash equivalents on the condensed consolidated balance sheets.

Accounts Receivable

Accounts receivable represents amounts owed to the Company from product sales and collaborative research and government grants. The Company had no amounts reserved for doubtful accounts at May 31, 2014 and August 31, 2013 as the Company expects full collection of the accounts receivable balances.

CERES, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

(In thousands, except share and per share data)

Seed Inventories

Due to the early stage of commercialization and the minimal amount of sales of the Company's seeds, at May 31, 2014 all seed inventory was written-off based on the lower of cost or market. At August 31, 2013, inventory consisted of work-in-process costs related to sweet sorghum seeds. Seed inventory costs are computed on a first-in, first-out basis and valued at the lower of cost or market with any excess cost recognized during the period within cost of product sales.

Property and Equipment

Property and equipment is stated at cost. Depreciation is provided using the straight-line method over the shorter of the estimated useful lives or the remaining life of the lease. Depreciation periods for the Company's property and equipment are as follows:

Automobiles and trucks	3-5 years
Office, laboratory, farm and warehouse equipment and furniture	3-5 years
Leasehold improvements	3-10 years
Buildings	14-39 years

Assets Held for Sale

The Company reclassifies long-lived assets to Assets Held for Sale when all required criteria for such reclassification are met. The assets are recorded at the lower of the carrying value or fair value less costs to sell. Assets held for sale must meet the following conditions: (1) management, having authority to approve the action, commits to a plan to sell the asset, (2) the asset is available for immediate sale in its present condition, (3) an active program to locate a buyer and other actions required to complete the plan to sell the asset have been initiated, (4) the sale of the asset is probable, and transfer of the asset is expected to qualify for recognition as a completed sale, within one year, (5) the asset is being actively marketed for sale at a price that is reasonable in relation to its current fair value, and (6) actions required to complete the plan indicate that it is unlikely that significant changes to the plan will be made or that the plan will be withdrawn.

In connection with the agreement the Company entered into on March 31, 2014 to sell its facility and certain equipment located in College Station, Texas, a determination was made that the assets met the criteria to be classified as held for sale and the fair value for the related assets was in excess of their carrying amount. Accordingly, during the quarter ended May 31, 2014, the Company recorded a charge of \$464 to Other expense for the difference between the net carrying amount of these assets of \$1,152 and the expected net cash proceeds of \$688.

Impairment of Long-Lived Assets

Long-lived assets, such as property and equipment, are reviewed for impairment whenever events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable. To the extent that an impairment indicator has occurred, recoverability of assets to be held and used is measured by a comparison of the carrying amount of an asset to estimated undiscounted future cash flows expected to be generated by the asset. If the carrying amount of an asset exceeds its estimated undiscounted future cash flows, an impairment charge is recognized in the amount by which the carrying amount of the asset exceeds the fair value of the asset. For the reporting periods presented herein there was no impairment.

Foreign Currency Translation

The Brazilian Real is the functional currency of the Company's subsidiary in Brazil. Accordingly, assets and liabilities of those operations are translated into United States dollars using the current exchange rate in effect at the balance sheet date and equity accounts are translated into United States dollars using historical rates. Revenues and expenses are translated at the weighted average rate of exchange during the reporting period. Gains and losses from foreign currency translation adjustments are represented as a component of accumulated other comprehensive loss within the Company's condensed consolidated balance sheets.

Accumulated Other Comprehensive Loss

The Company's unrealized gains and losses on available-for-sale securities and foreign currency translation adjustments represents the components of comprehensive loss and have been disclosed in the condensed consolidated balance sheets.

The following summarizes the changes in the balances of each component of accumulated other comprehensive loss during the nine months ended May 31, 2014:

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	Foreign Currency Translation	Unrealized Gains (Losses) on Securities	Accumulated Other Comprehensive Loss
Balance at August 31, 2013	\$ (684)	\$ (12)	\$ (696)
Comprehensive income (loss)	91	(3)	88
Balance at May 31, 2014	\$ (593)	\$ (15)	\$ (608)

CERES, INC. AND SUBSIDIARIES**Notes to Condensed Consolidated Financial Statements (Unaudited)****(In thousands, except share and per share data)*****Basic and Diluted Net Loss Per Share***

Basic net loss per common share is computed by dividing net loss attributable to common stockholders by the weighted average number of common shares outstanding. Diluted net loss per common share is computed by dividing net loss available to common stockholders by the weighted average number of common shares and dilutive potential common share equivalents then outstanding, to the extent they are dilutive. Potential common shares consist of shares issuable upon the exercise of stock options and warrants (using the treasury stock method). Dilutive net loss per share is the same as basic net loss per share for all periods presented because the effects of potentially dilutive items were anti-dilutive.

The following potentially dilutive, common share equivalents were excluded from the calculation of diluted net loss per common share because their effect was antidilutive for each of the periods presented:

	May 31,	
	2014	2013
Options to purchase common stock	3,327,395	2,673,232
Warrants to purchase common stock	2,562,045	2,082,045
Total	5,889,440	4,755,277

(3) Marketable Securities

Marketable securities classified as available for sale consisted of the following:

	May 31, 2014			
Available for sale securities	Amortized Cost	Gross Unrealized Gain	Gross Unrealized Loss	Fair Value
Certificates of Deposit	\$6,147	\$ —	\$ (6	) \$ 6,141
Commercial Paper	5,247	—	(1	) 5,246

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Corporate Bonds	15,261	—	(8	)	15,253
Total	\$26,655	\$	—	\$ (15	) \$ 26,640

	May 31, 2014	
	Amortized Cost	Fair Value
Marketable securities		
Due in 1 year or less	\$24,405	\$ 24,393
Due in 1-2 years	2,250	2,247
	\$26,655	\$ 26,640

	August 31, 2013			
Available for sale securities	Amortized Cost	Gross Unrealized Gain	Gross Unrealized Loss	Fair Value
Certificates of Deposit	\$4,561	\$ —	\$ (6	) \$ 4,555
Commercial Paper	1,000	—	(1	) 999
Corporate Bonds	16,081	2	(7	) 16,076
Total	\$21,642	\$ 2	\$ (14	) \$ 21,630

	August 31, 2013	
	Amortized Cost	Fair Value
Marketable securities		
Due in 1 year or less	\$21,642	\$ 21,630
	\$21,642	\$ 21,630

CERES, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

(In thousands, except share and per share data)

(4) Seed Inventories

Due to the early stage of commercialization and the minimal amount of sales of the Company's seeds, at May 31, 2014 all seed inventory was written-off based on the lower of cost or market. Inventories at August 31, 2013 consisted of the following:

Work in process	\$ 20
Seed inventory	—
Total inventories	\$ 20

(5) Property and Equipment

Property and equipment are summarized as follows:

	May 31, 2014	August 31, 2013
Land	\$43	\$ 43
Automobiles and trucks	924	796
Buildings	1,217	3,180
Office, laboratory, farm and warehouse equipment and furniture	12,802	14,792
Leasehold improvements	5,659	5,716
	20,645	24,527
Less accumulated depreciation	(17,679)	(19,894)
Property and equipment, net	\$2,966	\$ 4,633

(6) Accounts Payable and Accrued Expenses

Accounts payable and accrued expenses consisted of the following:

	May 31, 2014	August 31, 2013
Accounts payable	\$1,080	\$1,289
Accrued payroll and related expenses	2,308	1,020
Research and development contracts	319	1,098
Accrued grower commitments	-	38
Other	236	380
	\$3,943	\$3,825

(7) Long-Term Debt

Long-term debt is summarized as follows:

	May 31, 2014	August 31, 2013
Capital leases	\$123	\$ 236
Less current portion	(92)	(154)
Long term debt (capital leases)	\$31	\$ 82

The aggregated maturities of debt as of May 31, 2014 are as follows:

Remaining three months of fiscal year 2014	\$25
2015	67
2016	31
	\$123

CERES, INC. AND SUBSIDIARIES

Notes to Condensed Consolidated Financial Statements (Unaudited)

(In thousands, except share and per share data)

(8) Stock-Based Compensation

Stock Option and Stock Issuance Plans

The Company has established three equity plans: the Ceres, Inc. 2000 Stock Option/Stock Issuance Plan (2000 Plan), the Ceres, Inc. 2010 Stock Option/Stock Issuance Plan (2010 Plan) and the Amended and Restated Ceres, Inc. 2011 Equity Incentive Plan (2011 Plan, and collectively with the 2000 Plan and the 2010 Plan, Equity Plans). The Equity Plans provide for grants of Incentive Stock Options (ISOs) to employees and Nonqualified Stock Options (NSOs), stock and restricted stock to employees, directors, and consultants. In addition, the 2011 Plan provides for the grant of other equity based awards such as restricted stock units, stock appreciation rights and deferred stock to employees, directors and consultants. The option term, as determined by the Company's Board of Directors, may not exceed ten years. Vesting, also determined by the Company's Board of Directors, generally occurs ratably over four to five years. ISOs and NSOs may be granted at a price per share not less than the fair market value at the date of grant.

During September 2012, the Company modified options to purchase 403,333 shares of common stock that were scheduled to expire on December 18, 2012 by extending the terms such that the options now expire on December 18, 2015. A modification charge of \$157 was recorded in September 2012.

Stock-based compensation expense included in operating expenses and total intrinsic value of stock options exercised are as follows:

	Three months ended		Nine months ended	
	May 31, 2014	May 31, 2013	May 31, 2014	May 31, 2013
Stock-based compensation expense	\$949	\$875	\$2,804	\$2,737
Fair value changes of collaboration warrants	(13)	(98)	(4)	(276)

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	\$936	\$777	\$2,800	\$2,461
Intrinsic value of stock options exercised	\$—	\$—	\$—	\$79

There were no stock options exercised during the nine months ended May 31, 2014 or during the three months ended May 31, 2013.

Stock Option Activity

The following table summarizes the stock option transactions under the Equity Plans during the nine months ended May 31, 2014:

	Shares	Weighted Average Exercise Price
Options outstanding at August 31, 2013	2,791,556	\$ 7.49
Options granted	778,037	1.27
Options forfeited	(242,198)	8.96
Options outstanding at May 31, 2014	3,327,395	\$ 5.93

No tax benefits have been recorded on compensation costs recognized for options exercised. As of May 31, 2014, there was \$3,578 of total unrecognized compensation cost related to stock options. That cost is expected to be recognized over a weighted average of 2.38 years. The Company's policy is to issue new shares for options exercised.

CERES, INC. AND SUBSIDIARIES**Notes to Condensed Consolidated Financial Statements (Unaudited)****(In thousands, except share and per share data)*****Restricted Stock Activity***

The following summarizes the restricted stock transactions under the Equity Plans during the nine months ended May 31, 2014:

	Shares	Weighted Average Grant Date Fair Value
Restricted stock outstanding and unvested at August 31, 2013	290,700	\$ 5.55
Restricted stock granted	328,260	1.31
Restricted stock vested	(118,029)	3.91
Restricted stock forfeited	(23,167)	4.82
Restricted stock outstanding and unvested at May 31, 2014	477,797	\$ 3.38

As of May 31, 2014, there was \$309 of total unrecognized compensation cost related to restricted stock awards. That cost is expected to be recognized over a weighted average of 1.23 years.

If Goldman Sachs becomes a holder of any securities of the indices or index stocks in its capacity as a market-maker or otherwise, any actions that it takes in its capacity as securityholder, including voting or provision of consents, will not necessarily be aligned with, and may be inconsistent with, the interests of investors in the notes.

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S-19

Table of Contents

directly or indirectly related to the foregoing. These services could include making loans to or equity investments in those companies, providing financial advisory or other investment banking services, or issuing research reports. You should expect that Goldman Sachs, in providing such services, engaging in such transactions, or acting for its own account, may take actions that have direct or indirect effects on the indices or index stocks, as applicable, and that such actions could be adverse to the interests of investors in the notes. In addition, in connection with these activities, certain Goldman Sachs personnel may have access to confidential material non-public information about these parties that would not be disclosed to Goldman Sachs employees that were not working on such transactions as Goldman Sachs has established internal information barriers that are designed to preserve the confidentiality of non-public information. Therefore, any such confidential material non-public information would not be shared with Goldman Sachs employees involved in structuring, selling or making markets in the notes or with investors in the notes.

In this offering, as well as in all other circumstances in which Goldman Sachs receives any fees or other compensation in any form relating to services provided to or transactions with any other party, no accounting, offset or payment in respect of the notes will be required or made; Goldman Sachs will be entitled to retain all such fees and other amounts, and no fees or other compensation payable by any party or indirectly by holders of the notes will be reduced by reason of receipt by Goldman Sachs of any such other fees or other amounts.

The Offering of the Notes May Reduce an Existing Exposure of Goldman Sachs or Facilitate a Transaction or Position That Serves the Objectives of Goldman Sachs or Other Parties

A completed offering may reduce Goldman Sachs' existing exposure to the indices or index stocks, securities and instruments similar to or linked to the foregoing or the currencies in which they are denominated, including exposure gained through hedging transactions in anticipation of this offering. An offering of notes will effectively transfer a portion of Goldman Sachs' exposure (and indirectly transfer the exposure of Goldman Sachs' hedging or other counterparties) to investors in the notes.

The terms of the offering (including the selection of the indices or index stocks, and the establishment of other transaction terms) may have been selected in order to serve the investment or other objectives of Goldman Sachs or another client or counterparty of Goldman Sachs. In such a case, Goldman Sachs would typically receive the input of other parties that are involved in or otherwise have an interest in the offering, transactions hedged by the offering, or related transactions. The incentives of these other parties would normally differ from and in many cases be contrary to those of investors in the notes.

Other Investors in the Notes May Not Have the Same Interests as You

Other investors in the notes are not required to take into account the interests of any other investor in exercising remedies or voting or other rights in their capacity as securityholders or in making requests or recommendations to Goldman Sachs as to the establishment of other transaction terms. The interests of other investors may, in some circumstances, be adverse to your interests. For example, certain investors may take short positions (directly or indirectly through derivative transactions) on assets that are the same or similar to your notes, index, index stocks or other similar securities, which may adversely impact the market for or value of your notes.

The Policies of an Index Sponsor and Changes that Affect an Index or the Index Stocks Comprising an Index Could Affect the Coupons Payable on Your Notes, if Any, or the Cash Settlement Amount on the Stated Maturity Date and the Market Value of Your Notes

The policies of an index sponsor concerning the calculation of the level of an index, additions, deletions or substitutions of the index stocks comprising such index, and the manner in which changes affecting such index stocks or their issuers, such as stock dividends, reorganizations or mergers, are reflected in the index level, could affect the level of such index and, therefore, the coupon payable on your notes, if any, on any coupon payment date and the market value of your notes before that date. The coupons payable on your notes, if any, and their market value could also be affected if an index sponsor changes these policies, for example, by changing the manner in which it calculates the index level, or if the index sponsor discontinues or suspends calculation or publication of such index level, in which case it may become difficult to determine the market value of your notes. If events such as these occur, the calculation agent — which initially will be GS&Co., our affiliate — may determine the applicable index levels on any such date — and thus the amount payable on any coupon payment date, if any, or the cash settlement amount on the stated maturity date —

Table of Contents

in a manner it considers appropriate, in its sole discretion. We describe the discretion that the calculation agent will have in determining the applicable index levels on any trading day, an observation end date or the determination date and the coupons payable on your notes, if any, or the cash settlement amount more fully under “Specific Terms of Your Notes — Discontinuance or Modification of an Index” and “Specific Terms of Your Notes — Role of Calculation Agent” below.

The Return on Your Notes Will Not Reflect Any Dividends Paid on the Index Stocks

The applicable index sponsor calculates the level of an index by reference to the prices of the index stocks, without taking account of the value of dividends paid on those index stocks. Therefore, the return on your notes will not reflect the return you would realize if you actually owned the index stocks included in each index and received the dividends paid on those index stocks. You will not receive any dividends that may be paid on any of the index stocks by the index stock issuers. See “— You Have No Shareholder Rights or Rights to Receive Any Index Stock” below for additional information.

Except to the Extent The Goldman Sachs Group, Inc. Is One of the Companies Whose Common Stock Comprises the S&P 500® Index, There Is No Affiliation Between the Index Stock Issuers or the Index Sponsors and Us

The common stock of The Goldman Sachs Group, Inc. is one of the index stocks comprising the S&P 500® Index. We are not otherwise affiliated with the issuers of the index stocks or the index sponsors. As we have told you above, however, we or our affiliates may currently or from time to time in the future own securities of, or engage in business with the index sponsors or the index stock issuers. Neither we nor any of our affiliates have participated in the preparation of any publicly available information or made any “due diligence” investigation or inquiry with respect to the indices or any of the other index stock issuers. You, as an investor in your notes, should make your own investigation into the indices and the index stock issuers. See “The Indices” below for additional information about each index.

Neither the index sponsors nor any of the other index stock issuers are involved in the offering of your notes in any way and none of them have any obligation of any sort with respect to your notes. Thus, neither the index sponsors nor any of the other index stock issuers have any obligation to take your interests into consideration for any reason, including in taking any corporate actions that might affect the market value of your notes.

You Have No Shareholder Rights or Rights to Receive Any Index Stock

Investing in your notes will not make you a holder of any of the index stocks. Neither you nor any other holder or owner of your notes will have any rights with respect to the index stocks, including any voting rights, any right to receive dividends or other distributions, any rights to make a claim against the index stocks or any other rights of a holder of the index stocks. Your notes will be paid in cash, as will any coupon payments, and you will have no right to receive delivery of any index stocks.

Past Index Performance is No Guide to Future Performance

The actual performance of the indices over the life of the notes, as well as the amount payable at maturity, if any, may bear little relation to the historical closing levels of the indices or to the hypothetical return examples set forth elsewhere in this document. We cannot predict the future performance of the indices.

Your Notes Are Linked to the EURO STOXX 50® Index, Which Is Comprised of Index Stocks That Are Traded in a Foreign Currency But Not Adjusted to Reflect Their U.S. Dollar Value, And, Therefore, the Return on Your Notes Will Not Be Adjusted for Changes in the Foreign Currency Exchange Rate

Your notes are linked to the EURO STOXX 50® Index whose index stocks are traded in a foreign currency but not adjusted to reflect their U.S. dollar value. The amount payable on your notes will not be adjusted for changes in the euro/U.S. dollar exchange rate. The amount payable will be based solely upon the overall change in the level of the EURO STOXX 50® Index. Changes in foreign currency exchange rates, however, may reflect changes in the economy of the foreign countries in which the index’s component stocks are listed that, in turn, may affect the level of the EURO STOXX 50® Index.

Table of Contents

An Investment in the Offered Notes Is Subject to Risks Associated with Foreign Securities

The value of your notes is linked, in part, to an underlying index that is comprised of stocks from one or more foreign securities markets. Investments linked to the value of foreign equity securities involve particular risks. Any foreign securities market may be less liquid, more volatile and affected by global or domestic market developments in a different way than are the U.S. securities market or other foreign securities markets. Both government intervention in a foreign securities market, either directly or indirectly, and cross-shareholdings in foreign companies, may affect trading prices and volumes in that market. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange Commission. Further, foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies.

The prices of securities in a foreign country are subject to political, economic, financial and social factors that are unique to such foreign country's geographical region. These factors include: recent changes, or the possibility of future changes, in the applicable foreign government's economic and fiscal policies; the possible implementation of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities; fluctuations, or the possibility of fluctuations, in currency exchange rates; and the possibility of outbreaks of hostility, political instability, natural disaster or adverse public health developments. The United Kingdom has voted to leave the European Union (popularly known as "Brexit"). The effect of Brexit is uncertain, and Brexit has and may continue to contribute to volatility in the prices of securities of companies located in Europe and currency exchange rates, including the valuation of the euro and British pound in particular. Any one of these factors, or the combination of more than one of these factors, could negatively affect such foreign securities market and the price of securities therein. Further, geographical regions may react to global factors in different ways, which may cause the prices of securities in a foreign securities market to fluctuate in a way that differs from those of securities in the U.S. securities market or other foreign securities markets. Foreign economies may also differ from the U.S. economy in important respects, including growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency, which may have a positive or negative effect on foreign securities prices. See "The Indices – The EURO STOXX 50 Index" below for additional information.

As Calculation Agent, GS&Co. Will Have the Authority to Make Determinations that Could Affect the Value of Your Notes

As calculation agent for your notes, GS&Co. will have discretion in making certain determinations that affect your notes, including determining: the closing levels of the indices on any trading day during a quarterly observation period, which we will use to determine the coupon, if any, we will pay on any applicable coupon payment date; the final index level of the lesser performing index on the determination date, which we will use to determine the amount we must pay on the stated maturity date; the trading days during each quarterly observation period; whether to exclude a trading day during an observation period due to a market disruption event; whether to postpone an observation end date or the determination date because of a market disruption event or a non-trading day; the observation end dates; the trading days; the coupon payment dates; and the stated maturity date. The calculation agent also has discretion in making certain adjustments relating to a discontinuation or modification of the indices. See "Specific Terms of Your Notes — Discontinuance or Modification of an Index" below. The exercise of this discretion by GS&Co. could adversely affect the value of your notes and may present GS&Co. with a conflict of interest. We may change the calculation agent at any time without notice and GS&Co. may resign as calculation agent at any time upon 60 days' written notice to us.

The Calculation Agent Can Postpone an Observation End Date or the Determination Date, as the Case May Be, If a Market Disruption Event or a Non-Trading Day Occurs or is Continuing

If the calculation agent determines that, on a date that would otherwise be an observation end date or the determination date, a market disruption event has occurred or is continuing with respect to an index or that day is not a trading day with respect to any index, such observation end date or the determination date will be postponed as provided under "Specific Terms of Your Notes — Observation End Dates" and "Specific Terms of Your Notes — Determination Date", as applicable. In no case, however, will the observation end date or the determination date be postponed to a date later than the corresponding

S-22

Table of Contents

originally scheduled coupon payment date or the originally scheduled stated maturity date, as applicable, or if the corresponding originally scheduled coupon payment date or the originally scheduled stated maturity date is not a business day, later than the first business day after the corresponding originally scheduled coupon payment date or the originally scheduled stated maturity date. Moreover, if an observation end date or the determination date, as applicable, is postponed to the last possible day, but the market disruption event has not ceased by that day or that day is not a trading day, that day will nevertheless be the observation end date or the determination date, as applicable, for the corresponding coupon payment date or stated maturity date. In such a case, the calculation agent will determine the applicable closing levels or final index levels for such observation end date or the determination date based on the procedures described under “Specific Terms of Your Notes — Consequences of a Market Disruption Event or a Non-Trading Day” below.

We May Sell an Additional Aggregate Face Amount of the Notes at a Different Issue Price

At our sole option, we may decide to sell an additional aggregate face amount of the notes subsequent to the date of this document. The issue price of the notes in the subsequent sale may differ substantially (higher or lower) from the issue price you paid as provided on the cover of this document.

There are Small-Capitalization Stock Risks Associated with the Russell 2000® Index

The Russell 2000® Index is comprised of stocks of companies that may be considered small capitalization companies. These companies often have greater stock price volatility, lower trading volume and less liquidity than large capitalization companies and therefore the Russell 2000® Index may be more volatile than an index in which a greater percentage of the constituent stocks are issued by large-capitalization companies.

Certain Considerations for Insurance Companies and Employee Benefit Plans

Any insurance company or fiduciary of a pension plan or other employee benefit plan that is subject to the prohibited transaction rules of the Employee Retirement Income Security Act of 1974, as amended, which we call “ERISA”, or the Internal Revenue Code of 1986, as amended, including an IRA or a Keogh plan (or a governmental plan to which similar prohibitions apply), and that is considering purchasing the offered notes with the assets of the insurance company or the assets of such a plan, should consult with its counsel regarding whether the purchase or holding of the offered notes could become a “prohibited transaction” under ERISA, the Internal Revenue Code or any substantially similar prohibition in light of the representations a purchaser or holder in any of the above categories is deemed to make by purchasing and holding the offered notes. This is discussed in more detail under “Employee Retirement Income Security Act” below.

The Tax Consequences of an Investment in Your Notes Are Uncertain

The tax consequences of an investment in your notes are uncertain, both as to the timing and character of any inclusion in income in respect of your notes.

The Internal Revenue Service announced on December 7, 2007 that it is considering issuing guidance regarding the tax treatment of an instrument such as your notes, and any such guidance could adversely affect the value and the tax treatment of your notes. Among other things, the Internal Revenue Service may decide to require the holders to accrue ordinary income on a current basis and recognize ordinary income on payment at maturity, and could subject non-U.S. investors to withholding tax. Furthermore, in 2007, legislation was introduced in Congress that, if enacted, would have required holders that acquired instruments such as your notes after the bill was enacted to accrue interest income over the term of such instruments. It is not possible to predict whether a similar or identical bill will be enacted in the future, or whether any such bill would affect the tax treatment of your notes. We describe these developments in more detail under “Supplemental Discussion of Federal Income Tax Consequences – United States Holders – Possible Change in Law” below. You should consult your tax advisor about this matter. Except to the extent otherwise provided by law, GS Finance Corp. intends to continue treating the notes for U.S. federal income tax purposes in accordance with the treatment described under “Supplemental Discussion of Federal Income Tax Consequences” on page S-57 below unless and until such time as Congress, the Treasury Department or the Internal Revenue Service determine that some other treatment is more appropriate. Please also consult your tax advisor concerning the U.S. federal income tax and any other applicable tax consequences to you of owning your notes in your particular circumstances.

Table of Contents

Foreign Account Tax Compliance Act (FATCA) Withholding May Apply to Payments on Your Notes, Including as a Result of the Failure of the Bank or Broker Through Which You Hold the Notes to Provide Information to Tax Authorities

Please see the discussion under “United States Taxation — Taxation of Debt Securities — Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus for a description of the applicability of FATCA to payments made on your notes.

S-24

Table of Contents

SPECIFIC TERMS OF YOUR NOTES

We refer to the notes we are offering by this document as the “offered notes” or the “notes”. Please note that in this document, references to “GS Finance Corp.”, “we”, “our” and “us” mean only GS Finance Corp. and do not include its subsidiaries or affiliates, references to “The Goldman Sachs Group, Inc.”, our parent company, mean only The Goldman Sachs Group, Inc. and do not include its subsidiaries or affiliates and references to “Goldman Sachs” mean The Goldman Sachs Group, Inc. together with its consolidated subsidiaries and affiliates, including us. Also, references to the “accompanying prospectus” mean the accompanying prospectus, dated July 10, 2017, and references to the “accompanying prospectus supplement” mean the accompanying prospectus supplement, dated July 10, 2017, for Medium-Term Notes, Series E, in each case of GS Finance Corp. and The Goldman Sachs Group, Inc. Please note that in this section entitled “Specific Terms of Your Notes”, references to “holders” mean those who own notes registered in their own names, on the books that we or the trustee maintain for this purpose, and not those who own beneficial interests in notes registered in street name or in notes issued in book-entry form through The Depository Trust Company. Please review the special considerations that apply to owners of beneficial interests in the accompanying prospectus, under “Legal Ownership and Book-Entry Issuance”.

The offered notes are part of a series of debt securities, entitled “Medium-Term Notes, Series E”, that we may issue under the indenture from time to time as described in the accompanying prospectus supplement and accompanying prospectus. The offered notes are also “indexed debt securities”, as defined in the accompanying prospectus.

This document summarizes specific financial and other terms that apply to the offered notes, including your notes; terms that apply generally to all Series E medium-term notes are described in “Description of Notes We May Offer” in the accompanying prospectus supplement. The terms described here supplement those described in the accompanying prospectus supplement and the accompanying prospectus and, if the terms described here are inconsistent with those described there, the terms described here are controlling.

In addition to those terms described under “Summary Information” in this document, the following terms will apply to your notes:

Specified currency:

· U.S. dollars (“\$”)

Form of note:

· global form only: yes, at DTC

· non-global form available: no

Denominations: each note registered in the name of a holder must have a face amount of \$10 or an integral multiple of \$10 in excess thereof

Defeasance applies as follows:

· full defeasance: no

· covenant defeasance: no

Other terms:

· the default amount will be payable on any acceleration of the maturity of your notes as described under “— Special Calculation Provisions” below

Table of Contents

a business day for your notes will not be the same as a business day for our other Series E medium-term notes, as described under “— Special Calculation Provisions” below

a trading day for your notes will be as described under “— Special Calculation Provisions” below

Please note that the information about the settlement or trade date, issue price, discount or commission and net proceeds to GS Finance Corp. on the front cover page or elsewhere in this document relates only to the initial issuance and sale of the offered notes. We may decide to sell additional notes on one or more dates after the date of this document, at issue prices and with underwriting discounts and net proceeds that differ from the amounts set forth on the front cover page or elsewhere in this document. If you have purchased your notes in a market-making transaction after the initial issuance and sale of the offered notes, any such relevant information about the sale to you will be provided in a separate confirmation of sale.

We describe the terms of your notes in more detail below.

Index, Index Sponsor and Index Stocks

In this document, when we refer to an index, we mean either the S&P 500® Index, the Russell 2000® Index or the EURO STOXX 50® Index specified on the front cover page, or any successor index, as each may be modified, replaced or adjusted from time to time as described under “— Discontinuance or Modification of an Index” below. When we refer to an index sponsor as of any time, we mean the entity, including any successor sponsor, that determines and publishes the applicable index as then in effect. When we refer to the index stocks of an index as of any time, we mean the stocks that comprise the index as then in effect, after giving effect to any additions, deletions or substitutions.

Payment of a Contingent Coupon

Subject to our redemption right, on each coupon payment date, for each \$10 face amount of your notes, we will pay you an amount in cash equal to:

- if the closing level of each index on every trading day during the preceding quarterly observation period is greater than or equal to its coupon barrier, \$0.2475 (2.475% quarterly or 9.90% per annum); or
- if the closing level of any index on any trading day during the preceding quarterly observation period is less than its coupon barrier, \$0.00.

With respect to each index, the coupon barrier is 70.00% of its initial index level (rounded to the nearest one-thousandth).

A quarterly observation period is the period from but excluding each observation end date (or the trade date, in the case of the first quarterly observation period) to and including the next succeeding observation end date excluding any date or dates on which the calculation agent determines that a market disruption event with respect to any index occurs or is continuing or that the calculation agent determines is not a trading day with respect to any index.

Notwithstanding the immediately preceding sentence, if the calculation agent determines that, with respect to any index, a market disruption event occurs or is continuing on the observation end date for the applicable quarterly observation period or that day is not otherwise a trading day, the observation end date, and therefore the last day for such quarterly observation period, will be postponed as provided under “— Observation End Dates” below.

Payment of Principal on Stated Maturity Date

Subject to our early redemption right, for each \$10 face amount of your notes, we will pay you on the stated maturity date, in addition to any coupon payment then due, an amount in cash equal to:

- if the final index level of the lesser performing index is greater than or equal to its downside threshold, \$10; or
- if the final index level of the lesser performing index is less than its downside threshold, the sum of (1) \$10 plus (2) the product of (i) \$10 times (ii) the lesser performing index return.

Table of Contents

With respect to each index, the downside threshold is 60.00% of its initial index level (rounded to the nearest one-thousandth).

With respect to each index, the index return is calculated by subtracting the initial index level from the final index level and dividing the result by the initial index level, with the quotient expressed as a percentage. The lesser performing index is the index with the lowest index return. The lesser performing index return is the index return of the lesser performing index.

With respect to each index, the initial index level will be set on the trade date and will be the closing level of such index on the trade date. With respect to each index, the calculation agent will determine the final index level, which will be the closing level of such index on the determination date. However, the calculation agent will have discretion to adjust the closing level on any observation end date or the determination date or to determine it in a different manner as described under “— Consequences of a Market Disruption Event or a Non-Trading Day” and “— Discontinuance or Modification of an Index” below.

Stated Maturity Date

The stated maturity date is expected to be April 14, 2022, unless that day is not a business day, in which case the stated maturity date will be postponed to the next following business day. If the determination date is postponed as described under “— Determination Date” below, the stated maturity date will be postponed by the same number of business day(s) from but excluding the originally scheduled determination date to and including the actual determination date.

Determination Date

The determination date is expected to be April 11, 2022, unless the calculation agent determines that, with respect to an index, a market disruption event occurs or is continuing on that day or that day is not otherwise a trading day. In the event the originally scheduled determination date is a non-trading day with respect to any index, the determination date will be the first day thereafter that is a trading day for all indices (the “first qualified trading day”) provided that no market disruption event occurs or is continuing with respect to an index on that day. If a market disruption event with respect to an index occurs or is continuing on the originally scheduled determination date or the first qualified trading day, the determination date will be the first following trading day on which the calculation agent determines that each index has had at least one trading day (from and including the originally scheduled determination date or the first qualified trading day, as applicable) on which no market disruption event has occurred or is continuing and the closing level of each index will be determined on or prior to the postponed determination date as set forth under “— Consequences of a Market Disruption Event or a Non-Trading Day” below. (In such case, the determination date may differ from the date on which the level of an index is determined for the purpose of the calculations to be performed on the determination date.) In no event, however, will the determination date be postponed to a date later than the originally scheduled stated maturity date or, if the originally scheduled stated maturity date is not a business day, later than the first business day after the originally scheduled stated maturity date, either due to the occurrence of serial non-trading days or due to the occurrence of one or more market disruption events. On such last possible determination date, if a market disruption event occurs or is continuing with respect to an index that has not yet had such a trading day on which no market disruption event has occurred or is continuing or if such last possible day is not a trading day with respect to such index, that day will nevertheless be the determination date.

Coupon and Coupon Payment Dates

The coupons will be calculated and paid as described in this document.

The coupons on the offered notes will be paid on the coupon payment dates (to be set on the trade date and are expected to be the dates specified in the table under “Summary Information — Key Terms — Coupon payment dates” on page S-6, unless, for any such coupon payment date, that day is not a business day, in which case such coupon payment date will be postponed to the next following business day; if an observation end date is postponed as described under “— Observation End Dates” below, such coupon

Table of Contents

payment date will be postponed by the same number of business day(s) from but excluding the applicable originally scheduled observation end date to and including the actual observation end date). Although the coupon payment dates occur quarterly, there may not be an equal number of days between coupon payment dates.

Observation End Dates

The observation end dates are as specified in the table under “Summary Information — Key Terms — Coupon payment dates” on page S-6, commencing on January 9, 2019 and ending on April 11, 2022, unless the calculation agent determines that, with respect to any index, a market disruption event occurs or is continuing on that day or that day is not otherwise a trading day. In the event the originally scheduled observation end date is a non-trading day with respect to an index, the observation end date will be the first day thereafter that is a trading day for all indices (the “first qualified coupon trading day”) provided that no market disruption event occurs or is continuing for an index on that day. If a market disruption event with respect to an index occurs or is continuing on the originally scheduled observation end date or the first qualified coupon trading day, the observation end date will be the first following trading day on which the calculation agent determines that each index has had at least one trading day (from and including the originally scheduled observation end date or the first qualified coupon trading date, as applicable) on which no market disruption event has occurred or is continuing and the closing level of each index for that observation end date will be determined on or prior to the postponed observation end date as set forth under “— Consequences of a Market Disruption Event or a Non-Trading Day” below. (In such case, the observation end date may differ from the date on which the level of an index is determined for the purpose of the calculations to be performed on the observation end date.) In no event, however, will the observation end date be postponed to a date later than the originally scheduled coupon payment date or, if the originally scheduled coupon payment date is not a business day, later than the first business day after the originally scheduled coupon payment date, either due to the occurrence of serial non-trading days or due to the occurrence of one or more market disruption events. On such last possible observation end date applicable to the relevant coupon payment date, if a market disruption event occurs or is continuing with respect to an index that has not yet had such a trading day on which no market disruption event has occurred or is continuing or if such last possible day is not a trading day with respect to such index, that day will nevertheless be the observation end date. Although the observation end dates occur quarterly, there may not be an equal number of days between observation end dates.

Consequences of a Market Disruption Event or a Non-Trading Day

With respect to any index, if a market disruption event occurs or is continuing on a day that would otherwise be an observation end date or the determination date, or such day is not a trading day, then such observation end date or the determination date will be postponed as described under “— Observation End Dates” or “— Determination Date” above. If any observation end date or the determination date is postponed to the last possible date due to the occurrence of serial non-trading days, the level of each index will be the calculation agent’s assessment of such level, in good faith and in its sole discretion, on such last possible postponed observation end date or determination date, as applicable. If any observation end date or the determination date is postponed due to a market disruption event with respect to any index, the closing level of each index with respect to such observation end date or the final index level with respect to the determination date, as applicable, will be calculated based on (i) for any index that is not affected by a market disruption event on (A) the applicable originally scheduled observation end date or the first qualified coupon trading day thereafter (if applicable) or (B) the originally scheduled determination date or the first qualified trading day thereafter (if applicable), the closing level of the index on that date, (ii) for any index that is affected by a market disruption event on (A) the applicable originally scheduled observation end date or the first qualified coupon trading day thereafter (if applicable) or (B) the originally scheduled determination date or the first qualified trading day thereafter (if applicable), the closing level of the index on the first following trading day on which no market disruption event exists for such index and (iii) the calculation agent’s assessment, in good faith and in its sole discretion, of the level of any index on the last possible postponed observation end date or determination date, as applicable, with respect to such index as to which a market disruption event continues through the last possible postponed observation end date or determination date. As a result, this could result in the closing level on any observation end date or final index level on the determination date of each index being determined on different calendar dates.

Table of Contents

For the avoidance of doubt, once the closing level for an index is determined for an observation end date or determination date, the occurrence of a later market disruption event or non-trading day will not alter such calculation.

Discontinuance or Modification of an Index

If an index sponsor discontinues publication of an index and such index sponsor or anyone else publishes a substitute index that the calculation agent determines is comparable to such index, or if the calculation agent designates a substitute index, then the calculation agent will determine the coupon payable, if any, on the relevant coupon payment date or the cash settlement amount on the stated maturity date by reference to the substitute index. We refer to any substitute index approved by the calculation agent as a successor index.

If the calculation agent determines during a quarterly observation period or the determination date, as applicable, that the publication of an index is discontinued and there is no successor index, the calculation agent will determine the coupon or the cash settlement amount, as applicable, on the related coupon payment date or the stated maturity date, as applicable, by a computation methodology that the calculation agent determines will as closely as reasonably possible replicate such index.

If the calculation agent determines that an index, the index stocks comprising that index or the method of calculating that index is changed at any time in any respect — including any split or reverse split and any addition, deletion or substitution and any reweighting or rebalancing of the index or of the index stocks and whether the change is made by the index sponsor under its existing policies or following a modification of those policies, is due to the publication of a successor index, is due to events affecting one or more of the index stocks or their issuers or is due to any other reason — and is not otherwise reflected in the level of the index by the index sponsor pursuant to the then-current index methodology of the index, then the calculation agent will be permitted (but not required) to make such adjustments in such index or the method of its calculation as it believes are appropriate to ensure that the levels of such index used to determine the coupon or cash settlement amount, as applicable, on the related coupon payment date or the stated maturity date, as applicable, is equitable.

All determinations and adjustments to be made by the calculation agent with respect to an index may be made by the calculation agent in its sole discretion. The calculation agent is not obligated to make any such adjustments.

Default Amount on Acceleration

If an event of default occurs and the maturity of your notes is accelerated, we will pay the default amount in respect of the principal of your notes at the maturity, instead of the amount payable on the stated maturity date as described earlier. We describe the default amount under “— Special Calculation Provisions” below.

For the purpose of determining whether the holders of our Series E medium-term notes, which include your notes, are entitled to take any action under the indenture, we will treat the outstanding face amount of each of your notes as the outstanding principal amount of that note. Although the terms of your notes differ from those of the other Series E medium-term notes, holders of specified percentages in principal amount of all Series E medium-term notes, together in some cases with other series of our debt securities, will be able to take action affecting all the Series E medium-term notes, including your notes, except with respect to certain Series E medium-term notes if the terms of such notes specify that the holders of specified percentages in principal amount of all of such notes must also consent to such action. This action may involve changing some of the terms that apply to the Series E medium-term notes, accelerating the maturity of the Series E medium-term notes after a default or waiving some of our obligations under the indenture. In addition, certain changes to the indenture and the notes that only affect certain debt securities may be made with the approval of holders of a majority in principal amount of such affected debt securities. We discuss these matters in the accompanying prospectus under “Description of Debt Securities We May Offer — Default, Remedies and Waiver of Default” and “— Modification of the Debt Indentures and Waiver of Covenants.”

Table of Contents

Manner of Payment

Any payment or delivery on your notes at maturity will be made to an account designated by the holder of your notes and approved by us, or at the office of the trustee in New York City, but only when your notes are surrendered to the trustee at that office. We also may make any payment or delivery in accordance with the applicable procedures of the depositary.

Modified Business Day

As described in the accompanying prospectus, any payment on your notes that would otherwise be due on a day that is not a business day may instead be paid on the next day that is a business day, with the same effect as if paid on the original due date. For your notes, however, the term business day may have a different meaning than it does for other Series E medium-term notes. We discuss this term under “— Special Calculation Provisions” below.

Role of Calculation Agent

The calculation agent in its sole discretion will make all determinations regarding each index, the observation end dates, the coupon payment dates, the regular record dates, the coupon, if any, on each coupon payment date, each index return, the closing levels of the indices on each observation end date, each final index level, the determination date, business days, trading days, postponement of a coupon payment date, the stated maturity date and the amount of cash payable on your notes at maturity. Absent manifest error, all determinations of the calculation agent will be final and binding on you and us, without any liability on the part of the calculation agent.

Please note that GS&Co., our affiliate, is currently serving as the calculation agent as of the date of this document. We may change the calculation agent for your notes at any time after the date of this document without notice and GS&Co. may resign as calculation agent at any time upon 60 days' written notice to us.

Our Early Redemption Right

We may redeem your notes, at our option, in whole but not in part, on each coupon payment date on or after January 11, 2019, for an amount equal to 100% of the face amount plus any coupon then due.

If we choose to exercise our early redemption right described in this document, we will notify the holder of your notes and the trustee by giving at least two business days' prior notice. The day we give the notice, which will be a business day, will be the redemption notice date and the immediately following coupon payment date, which we will state in the redemption notice, will be the redemption date. We will not give a redemption notice that results in a redemption date later than the stated maturity date.

If we give the holder a redemption notice, we will redeem the entire outstanding face amount of your notes as follows. On the redemption date, we will pay to the holder of record on the scheduled business day immediately preceding the redemption date 100% of the face amount in cash, together with any coupon then due, in the manner described under “Manner of Payment” above.

Special Calculation Provisions

Business Day

When we refer to a business day with respect to your notes, we mean a day that is a New York business day as described under “Description of Debt Securities We May Offer — Calculations of Interest on Debt Securities — Business Days” on page 21 in the accompanying prospectus. A day is a scheduled business day if, as of the trade date, such day is scheduled to be a New York business day.

Trading Day

When we refer to a trading day with respect to an index, we mean (i) with respect to the S&P 500® Index and the Russell 2000® Index, a day on which the respective principal securities markets for all of the index stocks are open for trading, the index sponsor is open for business and such index is calculated and published by the index sponsor and (ii) with respect to the EURO STOXX 50® Index, a day on which such index is calculated and published by the index sponsor, regardless of whether one or more of the principal securities markets for the index stocks are closed on that day, if the index sponsor publishes the level of such index on that day.

Table of Contents

Closing Level

When we refer to the closing level of the S&P 500® Index and the EURO STOXX 50® Index on any trading day, we mean the official closing level of such index or any successor index published by the index sponsor on such trading day for such index.

When we refer to the closing level of the Russell 2000® Index on any trading day, we mean the closing level of that index or any successor index reported by Bloomberg Financial Services, or any successor reporting service we may select, on such trading day for that index. Currently, whereas the index sponsor publishes the official closing level of the index to six decimal places, Bloomberg Financial Services reports the closing level to fewer decimal places. As a result, the closing level of the Russell 2000® Index reported by Bloomberg Financial Services may be lower or higher than the official closing level of the Russell 2000® Index published by the index sponsor.

Default Amount

The default amount for your notes on any day (except as provided in the last sentence under “— Default Quotation Period” below), will be an amount in the specified currency for the face amount of your notes, equal to the cost of having a qualified financial institution, of the kind and selected as described below, expressly assume all of our payment and other obligations with respect to your notes as of that day and as if no default or acceleration had occurred, or to undertake other obligations providing substantially equivalent economic value to you with respect to your notes. That cost will equal:

- the lowest amount that a qualified financial institution would charge to effect this assumption or undertaking, plus the reasonable expenses, including reasonable attorneys' fees, incurred by the holder of your notes in preparing any documentation necessary for this assumption or undertaking.

During the default quotation period for your notes, which we describe below, the holder and/or we or the calculation agent may request a qualified financial institution to provide a quotation of the amount it would charge to effect this assumption or undertaking. If either party obtains a quotation, it must notify the other party in writing of the quotation. The amount referred to in the first bullet point above will equal the lowest — or, if there is only one, the only — quotation obtained, and as to which notice is so given, during the default quotation period. With respect to any quotation, however, the party not obtaining the quotation may object, on reasonable and significant grounds, to the assumption or undertaking by the qualified financial institution providing the quotation and notify the other party in writing of those grounds within two business days after the last day of the default quotation period, in which case that quotation will be disregarded in determining the default amount.

Default Quotation Period

The default quotation period is the period beginning on the day the default amount first becomes due and ending on the third business day after that day, unless:

- no quotation of the kind referred to above is obtained, or
- every quotation of that kind obtained is objected to within five business days after the day the default amount first becomes due.

If either of these two events occurs, the default quotation period will continue until the third business day after the first business day on which prompt notice of a quotation is given as described above. If that quotation is objected to as described above within five business days after that first business day, however, the default quotation period will continue as described in the prior sentence and this sentence.

In any event, if the default quotation period and the subsequent two business day objection period have not ended before the determination date, then the default amount will equal the principal amount of your notes.

Table of Contents

Qualified Financial Institutions

For the purpose of determining the default amount at any time, a qualified financial institution must be a financial institution organized under the laws of any jurisdiction in the United States of America, Europe or Japan, which at that time has outstanding debt obligations with a stated maturity of one year or less from the date of issue and that is, or whose securities are, rated either:

· A-1 or higher by Standard & Poor's Ratings Services or any successor, or any other comparable rating then used by that rating agency, or

· P-1 or higher by Moody's Investors Service, Inc. or any successor, or any other comparable rating then used by that rating agency.

Market Disruption Event

With respect to any given trading day, any of the following will be a market disruption event with respect to an index: a suspension, absence or material limitation of trading in index stocks constituting 20% or more, by weight, of the index on their respective primary markets, in each case for more than two consecutive hours of trading or during the one half hour before the close of trading in that market, as determined by the calculation agent in its sole discretion, a suspension, absence or material limitation of trading in option or futures contracts, if available, relating to the index or to index stocks constituting 20% or more, by weight, of such index, in the respective primary markets for those contracts, in each case for more than two consecutive hours of trading or during the one-half hour before the close of trading in that market, as determined by the calculation agent in its sole discretion, or index stocks constituting 20% or more, by weight, of the index or option or futures contracts, if available, relating to the index or to index stocks constituting 20% or more, by weight, of the index are not trading on what were the respective primary markets for those index stocks or contracts, as determined by the calculation agent in its sole discretion,

and, in the case of any of these events, the calculation agent determines in its sole discretion that the event could materially interfere with the ability of GS Finance Corp. or any of its affiliates or a similarly situated party to unwind all or a material portion of a hedge that could be effected with respect to the notes. For more information about hedging by GS Finance Corp. and/or any of its affiliates, see "Use of Proceeds" and "Hedging" below.

The following events will not be market disruption events:

· a limitation on the hours or numbers of days of trading, but only if the limitation results from an announced change in the regular business hours of the relevant market, and

· a decision to permanently discontinue trading in option or futures contracts relating to an index or to any index stock.

For this purpose, an "absence of trading" in the primary securities market on which an index stock, or on which option or futures contracts relating to an index or an index stock, are traded will not include any time when that market is itself closed for trading under ordinary circumstances. In contrast, a suspension or limitation of trading in an index stock or in option or futures contracts, if available, relating to an index or an index stock in the primary market for that stock or those contracts, by reason of:

· a price change exceeding limits set by that market,

· an imbalance of orders relating to that index stock or those contracts, or

· a disparity in bid and ask quotes relating to that index stock or those contracts,

will constitute a suspension or material limitation of trading in that stock or those contracts in that market.

Table of Contents

A market disruption event with respect to one index will not, by itself, constitute a market disruption event for the other unaffected index.

As is the case throughout this document, references to the index in this description of market disruption events includes any successor index as it may be modified, replaced or adjusted from time to time.

S-33

Table of Contents

USE OF PROCEEDS

We intend to lend the net proceeds from the sale of the offered notes to The Goldman Sachs Group, Inc. or its affiliates. The Goldman Sachs Group, Inc. expects to use the proceeds from such loans for the purposes we describe in the accompanying prospectus under “Use of Proceeds”. We or our affiliates may also use those proceeds in transactions intended to hedge our obligations under the offered notes as described below.

HEDGING

In anticipation of the sale of the offered notes, we and/or our affiliates expect to enter into hedging transactions involving purchases of listed or over-the-counter options, futures and other instruments linked to the indices or the index stocks on or before the trade date. In addition, from time to time after we issue the offered notes, we and/or our affiliates may enter into additional hedging transactions and to unwind those we have entered into, in connection with the offered notes and perhaps in connection with other index-linked notes we issue, some of which may have returns linked to the indices or the index stocks. Consequently, with regard to your notes, from time to time, we and/or our affiliates:

- expect to acquire, or dispose of positions in listed or over-the-counter options, futures or other instruments linked to the indices or some or all of the index stocks,
- may take or dispose of positions in the securities of the index stock issuers themselves,
- may take or dispose of positions in listed or over-the-counter options or other instruments based on indices designed to track the performance of the stock exchanges or other components of the equity markets, and /or
- may take short positions in the index stocks or other securities of the kind described above — i.e., we and/or our affiliates may sell securities of the kind that we do not own or that we borrow for delivery to purchaser.

We and/or our affiliates may acquire a long or short position in securities similar to your notes from time to time and may, in our or their sole discretion, hold or resell those securities.

In the future, we and/or our affiliates expect to close out hedge positions relating to the offered notes and perhaps relating to other notes with returns linked to the indices or the index stocks. We expect these steps to involve sales of instruments linked to the indices on or shortly before the determination date. These steps may also involve sales and/or purchases of some or all of the index stocks, or listed or over-the-counter options, futures or other instruments linked to the indices, some or all of the index stocks or indices designed to track the performance of the U.S., European, Asian or other stock exchanges or other components of the U.S., European, Asian or other equity markets or other components of such markets.

The hedging activity discussed above may adversely affect the market value of your notes from time to time and the amount we will pay on your notes at maturity. See “Additional Risk Factors Specific to Your Notes” above for a discussion of these adverse effects.

Table of Contents

THE INDICES

The S&P 500® Index

The S&P 500® Index includes a representative sample of 500 companies in leading industries of the U.S. economy. The 500 companies are not the 500 largest companies listed on the NYSE and not all 500 companies are listed on the NYSE. S&P Dow Jones Indices LLC (“S&P”) chooses companies for inclusion in the S&P 500 Index with an aim of achieving a distribution by broad industry groupings that approximates the distribution of these groupings in the common stock population of the U.S. equity market. Although the S&P 500® Index contains 500 constituent companies, at any one time it may contain greater than 500 constituent trading lines since some companies included in the S&P 500® Index prior to July 31, 2017 may be represented by multiple share class lines in the S&P 500® Index. The S&P 500® Index is calculated, maintained and published by S&P and is part of the S&P Dow Jones Indices family of indices. Additional information is available on the following websites: us.spindices.com/indices/equity/sp-500 and spdji.com/. We are not incorporating by reference the websites or any material they include in this document.

S&P intends for the S&P 500® Index to provide a performance benchmark for the large-cap U.S. equity markets. Constituent changes are made on an as-needed basis and there is no schedule for constituent reviews. Constituent changes are generally announced one to five business days prior to the change. Relevant criteria for additions to the S&P 500® Index that are employed by S&P include: the company proposed for addition should have an unadjusted company market capitalization of \$6.1 billion or more (for spin-offs, eligibility is determined using when-issued prices, if available); using composite pricing and volume, the ratio of annual dollar value traded in the proposed constituent to float-adjusted market capitalization of that company should be 1.00 or greater and the stock should trade a minimum of 250,000 shares in each of the six months leading up to the evaluation date; the company must be a U.S. company (characterized as a Form 10-K filer with its U.S. portion of fixed assets and revenues constituting a plurality of the total and with a primary listing of the common stock on the NYSE, NYSE Arca, NYSE American (formerly NYSE MKT), NASDAQ Global Select Market, NASDAQ Select Market, NASDAQ Capital Market, Bats BZX, Bats BYX, Bats EDGA, Bats EDGX or IEX (each, an “eligible exchange”)); the proposed constituent has a public float of 50% or more of its stock; the inclusion of the company will contribute to sector balance in the index relative to sector balance in the market in the relevant market capitalization range; financial viability (the sum of the most recent four consecutive quarters’ Generally Accepted Accounting Principles (GAAP) earnings (net income excluding discontinued operations) should be positive as should the most recent quarter); and, for IPOs, the company must be traded on an eligible exchange for at least twelve months. In addition, constituents of the S&P MidCap 400® Index and the S&P SmallCap 600® Index can be added to the S&P 500® Index without meeting the financial viability, public float and/or liquidity eligibility criteria if the S&P Index Committee decides that such an addition will enhance the representativeness of the S&P 500® Index as a market benchmark. Certain types of organizational structures and securities are always excluded, including business development companies (BDCs), limited partnerships, master limited partnerships, limited liability companies (LLCs), OTC bulletin board issues, closed-end funds, ETFs, ETNs, royalty trusts, tracking stocks, preferred stock and convertible preferred stock, unit trusts, equity warrants, convertible bonds, investment trusts, rights and American depositary receipts (ADRs). Stocks are deleted from the S&P 500® Index when they are involved in mergers, acquisitions or significant restructurings such that they no longer meet the inclusion criteria, and when they substantially violate one or more of the addition criteria. Stocks that are delisted or moved to the pink sheets or the bulletin board are removed, and those that experience a trading halt may be retained or removed in S&P’s discretion. S&P evaluates additions and deletions with a view to maintaining S&P 500® Index continuity.

For constituents included in the S&P 500® Index prior to July 31, 2017, all publicly listed multiple share class lines are included separately in the S&P 500® Index, subject to, in the case of any such share class line, that share class line satisfying the liquidity and float criteria discussed above and subject to certain exceptions. It is possible that one listed share class line of a company may be included in the S&P 500® Index while a second listed share class line of the same company is excluded. For companies that issue a second publicly traded share class to index share class holders, the newly issued share class line is considered for inclusion if the event is mandatory and the market capitalization of the distributed class is not considered to be de minimis.

S-35

Table of Contents

As of July 31, 2017, companies with multiple share class lines are no longer eligible for inclusion in the S&P 500® Index. Constituents of the S&P 500® Index prior to July 31, 2017 with multiple share class lines will be grandfathered in and continue to be included in the S&P 500® Index. If an S&P 500® Index constituent reorganizes into a multiple share class line structure, that company will be reviewed for continued inclusion in the S&P 500® Index at the discretion of the S&P Index Committee.

As of September 25, 2018, the 500 companies included in the S&P 500® Index were divided into eleven Global Industry Classification Sectors. The Global Industry Classification Sectors include (with the approximate percentage currently included in such sectors indicated in parentheses): Communication Services (9.95%), Consumer Discretionary (10.23%), Consumer Staples (6.70%), Energy (6.07%), Financials (13.66%), Health Care (14.89%), Industrials (9.71%), Information Technology (20.87%), Materials (2.49%), Real Estate (2.65%) and Utilities (2.78%). (Sector designations are determined by the underlying index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.) As of the close of business on September 21, 2018, S&P and MSCI, Inc. updated the Global Industry Classification Sector structure. Among other things, the update broadened the Telecommunications Services sector and renamed it the Communication Services sector. The renamed sector includes the previously existing Telecommunication Services Industry group, as well as the Media Industry group, which was moved from the Consumer Discretionary sector and renamed the Media & Entertainment Industry group. The Media & Entertainment Industry group contains three industries: Media, Entertainment and Interactive Media & Services. The Media industry continues to consist of the Advertising, Broadcasting, Cable & Satellite and Publishing sub-industries. The Entertainment industry contains the Movies & Entertainment sub-industry (which includes online entertainment streaming companies in addition to companies previously classified in such industry prior to September 21, 2018) and the Interactive Home Entertainment sub-industry (which includes companies previously classified in the Home Entertainment Software sub-industry prior to September 21, 2018 (when the Home Entertainment Software sub-industry was a sub-industry in the Information Technology sector)), as well as producers of interactive gaming products, including mobile gaming applications). The Interactive Media & Services industry and sub-industry includes companies engaged in content and information creation or distribution through proprietary platforms, where revenues are derived primarily through pay-per-click advertisements, and includes search engines, social media and networking platforms, online classifieds and online review companies. The Global Industry Classification Sector structure changes are effective for the S&P 500® Index as of the open of business on September 24, 2018 to coincide with the September 2018 quarterly rebalancing.

Calculation of the S&P 500® Index

The S&P 500® Index is calculated using a base-weighted aggregative methodology. The value of the S&P 500® Index on any day for which an index value is published is determined by a fraction, the numerator of which is the aggregate of the market price of each stock in the S&P 500® Index times the number of shares of such stock included in the S&P 500® Index, and the denominator of which is the divisor, which is described more fully below. The “market value” of any index stock is the product of the market price per share of that stock times the number of the then-outstanding shares of such index stock that are then included in the S&P 500® Index .

The S&P 500® Index is also sometimes called a “base-weighted aggregative index” because of its use of a divisor. The “divisor” is a value calculated by S&P that is intended to maintain conformity in index values over time and is adjusted for all changes in the index stocks’ share capital after the “base date” as described below. The level of the S&P 500 Index reflects the total market value of all index stocks relative to the S&P 500® Index’s base date of 1941-43.

In addition, the S&P 500® Index is float-adjusted, meaning that the share counts used in calculating the S&P 500® Index reflect only those shares available to investors rather than all of a company’s outstanding shares. S&P seeks to exclude shares held by certain shareholders concerned with the control of a company, a group that generally includes the following: officers and directors and related individuals whose

Table of Contents

holdings are publicly disclosed, private equity, venture capital, special equity firms, publicly traded companies that hold shares for control in another company, strategic partners, holders of restricted shares, employee stock ownership plans, employee and family trusts, foundations associated with the company, holders of unlisted share classes of stock, government entities at all levels (except government retirement or pension funds) and any individual person listed as a 5% or greater stakeholder in a company as reported in regulatory filings (collectively, “control holders”). To this end, S&P excludes all share-holdings (other than depositary banks, pension funds, mutual funds, exchange traded fund providers, 401(k) plans of the company, government retirement and pension funds, investment funds of insurance companies, asset managers and investment funds, independent foundations, savings plans and investment plans) with a position greater than 5% of the outstanding shares of a company from the float-adjusted share count to be used in S&P 500® Index calculations.

The exclusion is accomplished by calculating an Investable Weight Factor (IWF) for each stock that is part of the numerator of the float-adjusted index fraction described above:

$$\text{IWF} = (\text{available float shares}) / (\text{total shares outstanding})$$

where available float shares is defined as total shares outstanding less shares held by control holders. In most cases, an IWF is reported to the nearest one percentage point. For companies with multiple share class lines, a separate IWF is calculated for each share class line.

Maintenance of the S&P 500® Index

In order to keep the S&P 500® Index comparable over time S&P engages in an index maintenance process. The S&P 500® Index maintenance process involves changing the constituents as discussed above, and also involves maintaining quality assurance processes and procedures, adjusting the number of shares used to calculate the S&P 500® Index, monitoring and completing the adjustments for company additions and deletions, adjusting for stock splits and stock dividends and adjusting for other corporate actions. In addition to its daily governance of indices and maintenance of the S&P 500® Index methodology, at least once within any 12 month period, the S&P Index Committee reviews the S&P 500® Index methodology to ensure the S&P 500® Index continues to achieve the stated objective, and that the data and methodology remain effective. The S&P Index Committee may at times consult with investors, market participants, security issuers included in or potentially included in the S&P 500® Index, or investment and financial experts.

Divisor Adjustments

The two types of adjustments primarily used by S&P are divisor adjustments and adjustments to the number of shares (including float adjustments) used to calculate the S&P 500® Index. Set forth below is a table of certain corporate events and their resulting effect on the divisor and the share count. If a corporate event requires an adjustment to the divisor, that event has the effect of altering the market value of the affected index stock and consequently of altering the aggregate market value of the index stocks following the event. In order that the level of the S&P 500® Index not be affected by the altered market value (which could be an increase or decrease) of the affected index stock, S&P generally derives a new divisor by dividing the post-event market value of the index stocks by the pre-event index value, which has the effect of reducing the S&P 500® Index’s post-event value to the pre-event level.

Changes to the Number of Shares of a Constituent

The S&P 500® Index maintenance process also involves tracking the changes in the number of shares included for each of the index companies. The timing of adjustments to the number of shares depends on the type of event causing the change, and whether the change represents 5% or more of the total share count (for companies with multiple share class lines, the 5% threshold is based on each individual share class line rather than total company shares). Changes as a result of mergers or acquisitions are implemented when the transaction occurs. At S&P’s discretion, however, de minimis merger and acquisition changes may be accumulated and implemented with the updates made at the quarterly share updates as described below. Changes in a constituent’s total shares of 5% or more due to public offerings (which must be underwritten, have a publicly available prospectus or prospectus summary filed with the

Table of Contents

Securities and Exchange Commission and include a public confirmation that the offering has been completed) are implemented as soon as reasonably possible. Other changes of 5% or more are made weekly and are announced on Fridays for implementation after the close of trading on the following Friday. For changes of less than 5%, on the third Friday of the last month in each calendar quarter, S&P updates the share totals of companies in the S&P 500® Index as required by any changes in the number of shares outstanding. S&P implements a share / IWF freeze beginning after the market close on the Tuesday preceding the second Friday of each quarterly rebalancing month and ending after the market close on the third Friday of the quarterly rebalancing month. During this frozen period, shares and IWFs are not changed except for certain corporate action events (merger activity, stock splits and rights offerings).

Adjustments for Corporate Actions

There is a large range of corporate actions that may affect companies included in the S&P 500® Index. Certain corporate actions require S&P to recalculate the share count or the float adjustment or to make an adjustment to the divisor to prevent the value of the S&P 500® Index from changing as a result of the corporate action. This helps ensure that the movement of the S&P 500® Index does not reflect the corporate actions of individual companies in the S&P 500® Index.

Spin-Offs

As a general policy, a spin-off security is added to the S&P 500® Index at a zero price at the market close of the day before the ex-date (with no divisor adjustment). The spin-off security will remain in the S&P 500® Index if it meets all eligibility criteria. If the spin-off security is determined ineligible to remain in the S&P 500® Index, it will generally be removed after at least one day of regular way trading (with a divisor adjustment). If there is a gap between the ex-date and distribution date (or payable date), or if the spin-off security does not trade regular way on the ex-date, the spin-off security is kept in the S&P 500® Index until the spin-off security begins trading regular way. Several additional types of corporate actions, and their related adjustments, are listed in the table below.

Corporate Action	Share Count Revision Required?	Divisor Adjustment Required?
Stock split	Yes – share count is revised to reflect new count.	No – share count and price changes are off-setting
Change in shares outstanding (secondary issuance, share repurchase and/or share buy-back)	Yes – share count is revised to reflect new count.	Yes
Special dividends	No	Yes – calculation assumes that share price drops by the amount of the dividend; divisor adjustment reflects this change in index market value
Change in IWF	No	Yes – divisor change reflects the change in market value caused by the change to an IWF
Company added to or deleted from the S&P 500® Index	No	Yes – divisor is adjusted by the net change in market value, calculated as the shares issued multiplied by the price paid
Rights Offering	No	Yes – divisor adjustment reflects increase in market capitalization (calculation assumes that offering is fully subscribed)

Table of Contents

Recalculation Policy

S&P reserves the right to recalculate and republish the S&P 500® Index at its discretion in the event one of the following issues has occurred: (1) incorrect or revised closing price of one or more constituent securities; (2) missed corporate event; (3) incorrect application of corporate action or index methodology; (4) late announcement of a corporate event; or (5) incorrect calculation or data entry error. The decision to recalculate the S&P 500® Index is made at the discretion of the index manager and/or index committee, as further discussed below. The potential market impact or disruption resulting from the potential recalculation is considered when making any such decision. In the event of an incorrect closing price, a missed corporate event or a misapplied corporate action, a late announcement of a corporate event, or an incorrect calculation or data entry error that is discovered within two trading days of its occurrence, the index manager may, at his or her discretion, recalculate the S&P 500® Index without involving the index committee. In the event any such event is discovered beyond the two trading day period, the index committee shall decide whether the S&P 500® Index should be recalculated. In the event of an incorrect application of the methodology that results in the incorrect composition and/or weighting of index constituents, the index committee shall determine whether or not to recalculate the S&P 500® Index following specified guidelines. In the event that the S&P 500® Index is recalculated, it shall be done within a reasonable timeframe following the detection and review of the issue.

Calculations and Pricing Disruptions

Closing levels for the S&P 500® Index are calculated by S&P based on the closing price of the individual constituents of the S&P 500® Index as set by their primary exchange. Closing prices are received by S&P from one of its third party vendors and verified by comparing them with prices from an alternative vendor. The vendors receive the closing price from the primary exchanges. Real-time intraday prices are calculated similarly without a second verification. Prices used for the calculation of real time index values are based on the “Consolidated Tape”. The Consolidated Tape is an aggregation of trades for each constituent over all regional exchanges and trading venues and includes the primary exchange. If there is a failure or interruption on one or more exchanges, real-time calculations will continue as long as the “Consolidated Tape” is operational.

If an interruption is not resolved prior to the market close, official closing prices will be determined by following the hierarchy set out in NYSE Rule 123C. A notice is published on the S&P website at spdji.com indicating any changes to the prices used in S&P 500® Index calculations. In extreme circumstances, S&P may decide to delay index adjustments or not publish the S&P 500® Index. Real-time indices are not restated.

Unexpected Exchange Closures

An unexpected market/exchange closure occurs when a market/exchange fully or partially fails to open or trading is temporarily halted. This can apply to a single exchange or to a market as a whole, when all of the primary exchanges are closed and/or not trading. Unexpected market/exchange closures are usually due to unforeseen circumstances, such as natural disasters, inclement weather, outages, or other events.

To a large degree, S&P is dependent on the exchanges to provide guidance in the event of an unexpected exchange closure. S&P’s decision making is dependent on exchange guidance regarding pricing and mandatory corporate actions.

NYSE Rule 123C provides closing contingency procedures for determining an official closing price for listed securities if the exchange is unable to conduct a closing transaction in one or more securities due to a system or technical issue.

3:00 PM ET is the deadline for an exchange to determine its plan of action regarding an outage scenario. As such, S&P also uses 3:00 PM ET as the cutoff.

If all major exchanges fail to open or unexpectedly halt trading intraday due to unforeseen circumstances, S&P will take the following actions:

Table of Contents

Market Disruption Prior to Open of Trading:

- (i) If all exchanges indicate that trading will not open for a given day, S&P will treat the day as an unscheduled market holiday. The decision will be communicated to clients as soon as possible through the normal channels. Indices containing multiple markets will be calculated as normal, provided that at least one market is open that day. Indices which only contain closed markets will not be calculated.
- (ii) If exchanges indicate that trading, although delayed, will open for a given day, S&P will begin index calculation when the exchanges open.

Market Disruption Intraday:

- (i) If exchanges indicate that trading will not resume for a given day, the S&P 500® Index level will be calculated using prices determined by the exchanges based on NYSE Rule 123C. Intraday S&P 500® Index values will continue to use the last traded composite price until the primary exchange publishes official closing prices.

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S-40

Table of Contents

The Russell 2000® Index

The Russell 2000® Index is sponsored by FTSE Russell (“Russell”) and measures the composite price performance of stocks of 2,000 companies in the U.S. equity market. It is generally considered to be a “small-cap” index. Additional information about the Russell 2000® Index is available on the following website:

ftse.com/analytics/factsheets/Home/Search#. We are not incorporating by reference the website or any material it includes in this document.

As of September 24, 2018, the 2,000 companies included in the Russell 2000® Index were divided into nine Russell Global Sectors. The Russell Global Sectors include (with the approximate percentage currently included in such sectors indicated in parentheses): Consumer Discretionary (14.93%), Consumer Staples (2.39%), Financial Services (24.58%), Health Care (16.10%), Materials & Processing (6.85%), Other Energy (4.77%), Producer Durables (13.49%), Technology (12.87%) and Utilities (4.02%). (Sector designations are determined by the index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.)

The Russell 2000® Index includes approximately 2,000 of the smallest securities that form the Russell 3000® Index. The Russell 3000® Index is comprised of the 3,000 largest U.S. companies, or 98% based on market capitalization, of the investable U.S. equity market. The Russell 2000® Index is designed to track the performance of the small capitalization segment of the U.S. equity market.

Selection of Constituent Stocks of the Russell 2000® Index

The Russell 2000® Index is a sub-index of the Russell 3000® Index. To be eligible for inclusion in the Russell 3000® Index, and, consequently, the Russell 2000® Index, a company’s stocks must be listed on the rank day in May of a given year (the timetable is announced each spring) and Russell must have access to documentation verifying the company’s eligibility for inclusion. Eligible initial public offerings (“IPOs”) are added to Russell U.S. Indices quarterly, based on total market capitalization rankings within the market-adjusted capitalization breaks established during the most recent reconstitution. To be added to any Russell U.S. index during a quarter outside of reconstitution, IPOs must meet additional eligibility criteria.

A company is included in the U.S. equity markets and is eligible for inclusion in the Russell 3000® Index, and consequently, the Russell 2000® Index, if that company incorporates in the U.S., has its headquarters in the U.S. and also trades with the highest liquidity in the U.S. If a company does not satisfy all of the above criteria, it can still be included in the U.S. equity market if any one of the following home country indicators is in the United States: (i) country of incorporation, (ii) country of headquarters and (iii) country in which the company trades with the highest liquidity (as defined by a two-year average daily dollar trading volume from all exchanges within the country), and the primary location of that company’s assets or its revenue, based on an average of two years of assets or revenues data, is also in the United States. In addition, if there is insufficient information to assign a company to the U.S. equity markets based on its assets or revenue, the company may nonetheless be assigned to the U.S. equity markets if the headquarters of the company is located in the United States or if the headquarters of the company is located in certain “benefit-driven incorporation countries”, or “BDIs”, and that company’s most liquid stock exchange is in the United States. The BDI countries are Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Bonaire, British Virgin Islands, Cayman Islands, Channel Islands, Cook Islands, Curaçao, Faroe Islands, Gibraltar, Guernsey, Isle of Man, Jersey, Liberia, Marshall Islands, Panama, Saba, Sint Eustatius, Sint Maarten and Turks and Caicos Islands. A U.S.-listed company is not eligible for inclusion within the U.S. equity market if it has been classified by Russell as a China N share on the rank date of the index reconstitution. A company will be considered a China N share if the following criteria are satisfied: (i) the company is incorporated outside of the People’s Republic of China, (ii) the company is listed on the NYSE, the NASDAQ or the NYSE MKT, (iii) over 55% of the revenue or assets of the company are derived from the People’s Republic of China, and (iv) the company is controlled by a mainland Chinese entity, company or individual (if the shareholder background cannot be determined with publicly available information, Russell will consider whether the establishment and origin of the company are in mainland China and whether the company is headquartered in mainland China). ADRs and ADSs are not eligible for inclusion in the

Russell 2000® Index.

S-41

Table of Contents

In addition, all securities eligible for inclusion in the Russell 3000® Index, and consequently, the Russell 2000® Index, must trade on an eligible exchange (BATS, IEX, NYSE, NYSE MKT, NYSE Arca and NASDAQ).

Exclusions from the Russell 2000® Index

Russell specifically excludes the following companies and securities from the Russell 2000® Index: (i) preferred and convertible preferred stock, redeemable shares, participating preferred stock, warrants, rights, installment receipts and trust receipts; (ii) royalty trusts, U.S. limited liability companies, closed-end investment companies, companies that are required to report Acquired Fund Fees and Expenses (as defined by the SEC), including business development companies, blank check companies, special-purpose acquisition companies and limited partnerships; (iii) companies with a total market capitalization less than \$30 million; (iv) companies with only a small portion of their shares available in the marketplace (companies with 5% or less float); (v) bulletin board, pink sheets or over-the-counter traded securities, including securities for which prices are displayed on the FINRA ADF; (vi) real estate investment trusts and publicly traded partnerships that generate, or have historically generated, unrelated business taxable income and have not taken steps to block their unrelated business taxable income to equity holders; and (vii) companies with 5% or less of the company's voting rights in the hands of unrestricted shareholders (existing constituents that do not currently have more than 5% of the company's voting rights in the hands of unrestricted shareholders have until the September 2022 review to meet this requirement).

Initial List of Eligible Securities

The primary criterion Russell uses to determine the initial list of securities eligible for the Russell 3000® Index and, consequently, the Russell 2000® Index, is total market capitalization, which is calculated by multiplying the total outstanding shares for a company by the market price as of the rank day for those securities being considered at annual reconstitution. IPOs may be added between constitutions as noted below. All common stock share classes are combined in determining a company's total shares outstanding. If multiple share classes have been combined, the number of total shares outstanding will be multiplied by the primary exchange close price and used to determine the company's total market capitalization. In cases where the common stock share classes act independently of each other (e.g., tracking stocks), each class is considered for inclusion separately. Stocks must have a closing price at or above \$1.00 on their primary exchange or an eligible secondary exchange on the last trading day of May of each year to be eligible for inclusion in the Russell 2000® Index. In order to reduce unnecessary turnover, if an existing member's closing price is less than \$1.00 on the rank day in May, it will be considered eligible if the average of the daily closing prices from their primary exchange during the 30 days prior to the rank day is equal to or greater than \$1.00. If an existing member does not trade on the rank day, it must price at \$1.00 or above on another eligible U.S. exchange to remain eligible.

Multiple Share Classes

If an eligible company trades under multiple share classes or if a company distributes shares of an additional share class to its existing shareholders through a mandatory corporate action, each share class will be reviewed independently for inclusion. Share classes in addition to the primary vehicle (the pricing vehicle) that have a total market capitalization larger than the smallest company in the Russell 3000E™ Index, an average daily dollar trading value that exceeds that of the global median, and a float greater than 5% of shares available in the market place are eligible for inclusion.

The pricing vehicle will generally be designated as the share class with the highest two-year trading volume as of the rank day. In the absence of two years' worth of data, all available data will be used for this calculation. If the difference between trading volumes for each share class is less than 20%, the share class with the most available shares outstanding will be used as the pricing vehicle. At least 100 day trading volume is necessary to consider the class as a pricing vehicle for existing members. New members will be analyzed on all available data, even if that data is for less than 100 days.

Table of Contents

Annual Reconstitution

The Russell 2000® Index is reconstituted annually by Russell to reflect changes in the marketplace. The list of companies is ranked based on total market capitalization on the last trading day in May, with the actual reconstitution occurring on the final Friday of June each year, unless the final Friday in June is the 29th or 30th, in which case reconstitution will occur on the preceding Friday. A full calendar for reconstitution is made available each spring. A company's total shares are multiplied by the primary exchange close price of the pricing vehicle and used to determine the company's total market capitalization for the purpose of ranking of companies and determination of index membership. If no volume exists on the primary exchange on the rank day, the last trade price from an eligible secondary exchange will be used where volume exists (using the lowest trade price above \$1.00 if multiple secondary markets exist). The company's rank will be determined based on the cumulative market capitalization. As of the June 2016 reconstitution, any share class not qualifying for eligibility independently will not be aggregated with the pricing vehicle within the available shares calculation.

For mergers and spin-offs that are effective between the rank day and the Friday prior to annual reconstitution in June, the market capitalizations of the impacted securities are recalculated and membership is reevaluated as of the effective date of the corporate action. For corporate events that occur during the final week of reconstitution (during which reconstitution is finalized Friday after U.S. market close), market capitalizations and memberships will not be reevaluated. Non index members that have been considered ineligible as of rank day will not be reevaluated in the event of a subsequent corporate action that occurs between rank day and the reconstitution effective date.

Index Calculation and Capitalization Adjustments

As a capitalization-weighted index, the Russell 2000® Index reflects changes in the capitalization, or market value, of the index stocks relative to the capitalization on a base date. This discussion describes the "price return" calculation of the Russell 2000® Index. The current Russell 2000® Index value is the compounded result of the cumulative daily (or monthly) return percentages, where the starting value of the Russell 2000® Index is equal to the base value (100) and base date (December 31, 1978). Returns between any two dates can then be derived by dividing the ending period index value (IV1) by the beginning period (IV0) index value, so that the return equals $[(IV1 / IV0) - 1] * 100$.

Constituent stocks of the Russell 2000® Index are weighted in the Russell 2000® Index by their free-float market capitalization, which is calculated by multiplying the primary closing price by the number of free-float shares. Free-float shares are shares that are available to the public for purchase as determined by Russell. Adjustments to shares are reviewed quarterly (including at reconstitution) and for major corporate actions such as mergers.

The following are excluded from free float: shares directly owned by state, regional, municipal and local governments (excluding shares held by independently managed pension schemes for governments); shares held by sovereign wealth funds where each holding is 10% or greater of the total number of shares in issue; shares held by directors, senior executives and managers of the company, and by their family and direct relations, and by companies with which they are affiliated; shares held within employee share plans; shares held by public companies or by non-listed subsidiaries of public companies; shares held by founders, promoters, former directors, founding venture capital and private equity firms, private companies and individuals (including employees) where the holding is 10% or greater of the total number of shares in issue; all shares where the holder is subject to a lock-in clause (for the duration of that clause, after which free float changes resulting from the expiration of a lock-in clause will be implemented at the next quarterly review subsequent to there being a minimum of 20 business days between the expiration date of such lock-in clause and the Tuesday before the first Friday of the review month; if the previously locked-in shares are sold by way of a corporate event (such as a secondary offering), any change to the free float will be

Table of Contents

applied T+2 following completion and therefore will not be subject to the minimum 20 business day rule); shares held by an investor, investment company or an investment fund that is actively participating in the management of a company or is holding shares for publicly announced strategic reasons, or has successfully placed a current member to the board of directors of a company; and shares that are subject to ongoing contractual agreements (such as swaps) where they would ordinarily be treated as restricted. In addition, while portfolio holdings such as pension funds, insurance funds or investment companies will generally not be considered as restricted from free float, where a single portfolio holding is 30% or greater it will be regarded as strategic and therefore restricted (and will remain restricted until the holding falls below 30%).

Corporate Actions Affecting the Russell 2000® Index

Russell adjusts the Russell 2000® Index on a daily basis in response to certain corporate actions and events. Therefore, a company's membership in the Russell 2000® Index and its weight in the Russell 2000® Index can be impacted by these corporate actions. The adjustment is applied based on sources of public information, including press releases and Securities and Exchange Commission filings. Prior to the completion of a corporate action or event, Russell estimates the effective date. Russell will then adjust the anticipated effective date based on public information until the date is considered final. Depending on the time on a given day that an action is determined to be final, Russell will generally either (1) apply the action before the open on the ex-date or (2) apply the action after providing appropriate notice. If Russell has confirmed the completion of a corporate action, scheduled to become effective subsequent to a rebalance, the event may be implemented in conjunction with the rebalance to limit turnover, provided appropriate notice can be given. Russell applies the following methodology guidelines when adjusting the Russell 2000® Index in response to corporate actions and events:

“No Replacement” Rule — Securities that are deleted from the Russell 2000® Index between reconstitution dates, for any reason (e.g., mergers, acquisitions or other similar corporate activity) are not replaced. Thus, the number of securities in the Russell 2000® Index over the past year will fluctuate according to corporate activity.

Mergers and Acquisitions

Adjustments due to mergers and acquisitions are applied to the Russell 2000® Index after the action is determined to be final. In the event that a constituent is being acquired for cash or is delisted subsequent to an index review, such constituent will be removed from the Russell 2000® Index in conjunction with the index review, assuming that the action is determined to be final and a minimum of two days' notice can be provided.

Between constituents: When mergers and acquisitions take place between companies that are both constituents of a Russell index for cash, the target company is deleted and shares of the acquiring stock are increased according to the offer terms. When mergers and acquisitions take place between companies that are both constituents of a Russell index for stock, the target company is deleted from the Russell 2000® Index at the last traded price.

Between a constituent and a non-constituent: If the target company is a member of the Russell 2000® Index, it is deleted from the Russell 2000® Index and the acquiring company will be included initially in the Russell 2000® Index provided it is eligible in all other respects at the time of the merger, regardless of previous eligibility screenings. If the acquiring company is deemed eligible it will be added to the Russell 2000® Index on the effective date and the opening price will be calculated using the offer terms.

Given sufficient market hours after the confirmation of a merger or acquisition, Russell effects the action after the close on the last day of trading of the target company, or at an appropriate time once the transaction has been deemed to be final.

Rights Offerings — Rights offered to shareholders are reflected in the Russell 2000® Index only if the subscription price of the rights is at a discount to the market price of the stock. Provided that Russell has been alerted to the rights offer prior to the ex-date, it will adjust the price of the stock for the value of the rights and increased shares according to the terms of the offering before the open on the ex-date.

Table of Contents

Spin-offs— Spun-off companies are added to the parent company's index if the parent company's market value is reduced simultaneously per the spin-off valuation. Spun-off companies are added to the Russell 2000® Index at the same time as they are spun-off from their parent company on the ex-date of the distribution.

Initial Public Offerings — Eligible IPOs are added to the Russell 2000 Index based on total market capitalization ranking within the market-adjusted capitalization breaks established at the most recent annual reconstitution.

An IPO of additional share classes will be considered for eligibility and must meet the same eligibility criteria for all other multiple share classes. If at the time of the IPO the additional share class does not meet the eligibility criteria for separate index membership, it will not be added to the Russell 2000® Index and will subsequently be reviewed for index membership during the next annual reconstitution.

Once IPO additions have been announced, an IPO may be added to the Russell 2000® Index prior to the previously announced schedule, if a corporate action has deemed this to be appropriate and notice can be provided (e.g. an index member automatically receives shares via a stock distribution into a projected IPO add).

Tender Offers — A company acquired as a result of a tender offer is removed when (i) (a) offer acceptances reach 90%; (b) shareholders have validly tendered and the shares have been irrevocably accepted for payment; and (c) all pertinent offer conditions have been reasonably met and the acquirer has not explicitly stated that it does not intend to acquire the remaining shares; (ii) where offer acceptances are below 90%, there is reason to believe that the remaining free float is under 5% based on information available at the time; or (iii) following completion of the offer the acquirer has stated intent to finalize the acquisition via a short-form merger, squeeze-out, top-up option or any other compulsory mechanism.

Where the conditions for index deletion are not met, Russell may implement a free float change based on the reported acceptance results at the expiration of the initial, subsequent or final offer period where (i) the minimum acceptance level as stipulated by the acquirer is met; (ii) shareholders have validly tendered and the shares have been irrevocably accepted for payment; (iii) all pertinent offer conditions have been reasonably met and (iv) the change to the current float factor is greater than 3%. A minimum two day notice period of the change is generally provided. If the offer includes a stock consideration, the acquiring company's shares will be increased proportionate to the free float change of the target company. If the target company's free float change is greater than 3%, the associated change to the acquiring company's shares will be implemented regardless of size. Additionally, if the change to the target company is less than 3%, then no change will be implemented to the target or the acquiring company at the time of the event, regardless of any change to the acquiring company's shares. The target company will then be deleted as a second-step, if the conditions for deletion are achieved at the expiration of a subsequent offer period.

Delisted and Suspended Stocks — A stock will be deleted as a constituent if it is delisted from all eligible exchanges, becomes bankrupt, files for bankruptcy protection, is insolvent or is liquidated, or where evidence of a change in circumstances makes it ineligible for index inclusion. If, however, a stock is suspended, Russell will determine its treatment as follows:

- if a constituent is declared bankrupt without any indication of compensation to shareholders, the last traded price will be adjusted to zero value and the constituent will be removed from the Russell 2000® Index with T+2 notice; in all other cases, a constituent will continue to be included in the Russell 2000® Index for a period of up to 20 business days at its last traded price;

- if a constituent continues to be suspended at the end of the 20 business day period, it will be subject to review and a decision will be taken to either allow the constituent to remain in the Russell 2000® Index for a further period of up to 20 business days or to remove it at zero value. In making this determination, Russell will take into account the stated reasons for the suspension. These reasons may include announcements made by the company regarding a pending acquisition or restructuring, and any stated intentions regarding a date for the resumption of trading. This procedure will be repeated at successive 20 business day intervals thereafter until either trading recommences or the suspension period reaches 80 business days;

S-45

Table of Contents

if the suspension period reaches 80 business days, Russell will provide notice that the constituent will be removed at zero value following the expiry of at least 40 business days;

in certain limited circumstances where the index weight of the constituent is significant and Russell determines that a market-related value can be established for the suspended constituent, for example because similar company securities continue to trade, deletion may take place at the market-related value instead. In such circumstances, Russell will set out its rationale for the proposed treatment of the constituent at the end of the 80 business day period; if, following the end of the 80 business day period, a suspended constituent resumes trading before the Wednesday before the first Friday of March, June, September or December, the deletion notice will be rescinded and the constituent will be retained in the Russell 2000® Index. If the constituent resumes trading after these dates but before the review effective date, the constituent will continue to be removed from the Russell 2000® Index as previously announced but in these circumstances the deletion may instead be implemented at market value; and

if a constituent has been removed from the Russell 2000® Index and trading is subsequently restored, the constituent will only be re-considered for inclusion after a period of 12 months from its deletion. For the purposes of index eligibility it will be treated as a new issue.

Bankruptcy and Voluntary Liquidations — Companies that file for a Chapter 7 liquidation bankruptcy or have filed a liquidation plan will be removed from the Russell 2000® Index at the time of the bankruptcy filing (except when shareholder approval is required to finalize the liquidation plan, in which case the company will be removed once shareholder approval has been granted); whereas companies filing for a Chapter 11 reorganization bankruptcy will remain a member of the Russell 2000® Index, unless the company is delisted from the primary exchange, in which case normal delisting rules apply. If a company files for bankruptcy, is delisted and it can be confirmed that it will not trade on any market, including OTC, Russell may remove the stock at a nominal price of \$0.0001.

Stock Distributions and distributions in specie— A price adjustment for stock distributions is applied on the ex-date of the distribution. Where Russell is able to value a distribution in specie prior to the ex-date, a price adjustment is made to the company paying the dividend at the open on the ex-date. If no valuation of the distribution exists prior to the ex-date, no price adjustment is applied. Where the company whose holders are receiving the distribution is an index member, its shares will be increased according to the terms of the distribution. If such company is not an index member, the distributed shares will be added to the Russell 2000® Index until they have been settled and have listed, at which point they will be removed at the last traded price giving appropriate notice.

Special Cash Dividends — If a constituent pays out a special cash dividend, the price of the stock is adjusted to deduct the dividend amount before the open on the ex-date. No adjustment for regular cash dividends is made in the price return calculation of the Russell 2000® Index.

Updates to Shares Outstanding and Free Float — Russell reviews the Russell 2000 Index quarterly for updates to shares outstanding and to free floats used in calculating the Russell 2000® Index. The changes are implemented quarterly in March, June, September and December after the close on the third Friday of such month. The June reconstitution will be implemented on the last Friday of June (unless the last Friday occurs on the 29th or 30th of the month, in which case reconstitution will occur on the Friday prior).

In March, September and December shares outstanding and free floats are updated to reflect (i) changes greater than 1% for cumulative shares in issue changes and (ii) changes greater than 3% for cumulative free float changes. In addition, a constituent with a free float of 15% or below will not be subject to the 3% change threshold and will instead be updated if the change is greater than 1%. Updates to shares outstanding and free floats will be implemented each June regardless of size (i.e., the percentage change thresholds above will not be applied). Russell implements the June updates using data sourced primarily from the companies' publicly available information filed with the Securities and Exchange Commission.

Table of Contents

Outside of the quarterly update cycle, outstanding shares and free float will be updated with at least two days' notice if prompted by primary or secondary offerings if (i) there is a USD \$1 billion investable market capitalization change related to a primary/secondary offering or (ii) there is a resultant 5% change in index shares related to a primary or secondary offering and a USD \$250 million investable market capitalization change. These changes are implemented after the close on the day that the subscription period closes, assuming two days' notice can be provided. If two days' notice cannot be provided prior to the end of the subscription period, the change will still proceed with two days' notice and will be implemented at the earliest opportunity. If discovery of the event occurs more than two days after the close of the subscription period, the changes are deferred until the quarterly review cycle.

If a company distributes shares of an additional share class to its existing shareholders through a mandatory corporate action, the additional share class will be evaluated for separate index membership. The new share class will be deemed eligible if the market capitalization of the distributed shares meets the minimum size requirement (the market capitalization of the smallest member of the Russell 3000E Index from the previous rebalance as adjusted for performance to date). If the additional share class is not eligible at the time of distribution, it will not be added to the Russell 2000® Index.

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Table of Contents

The EURO STOXX 50® Index

The EURO STOXX 50® Index is a free-float market capitalization-weighted index of 50 European blue-chip stocks and was created by and is sponsored and maintained by STOXX Limited. Publication of the EURO STOXX 50® Index began on February 26, 1998, based on an initial index value of 1,000 at December 31, 1991. The 50 stocks included in the EURO STOXX 50® Index trade in Euros, and are allocated, based on their country of incorporation, primary listing and largest trading volume, to one of the following countries: Austria, Belgium, Finland, France, Germany, Ireland, Italy, Luxembourg, the Netherlands, Portugal and Spain, which we refer to collectively as the Eurozone. Companies allocated to a Eurozone country but not traded in Euros are not eligible for inclusion in the index. The level of the EURO STOXX 50® Index is disseminated on the STOXX Limited website. STOXX Limited is under no obligation to continue to publish the index and may discontinue publication of it at any time. Additional information regarding the EURO STOXX 50® Index may be obtained from the STOXX Limited website: stoxx.com. We are not incorporating by reference the website or any material it includes in this document.

The top ten constituent stocks of the EURO STOXX 50® Index as of September 12, 2018, by weight, are: Total S.A. (6.24%), SAP SE (4.91%), Siemens AG (4.06%), Sanofi (3.68%), Allianz SE (3.55%), LVMH Moët Hennessy Louis Vuitton SE (3.41%), Unilever N.V. (3.23%), BASF SE (3.09%), Banco Santander S.A. (2.98%) and Bayer AG (2.86%); constituent weights may be found at stoxx.com/download/indices/factsheets/SX5GT.pdf under “Factsheets and Methodologies” and are updated periodically.

As of September 12, 2018, the sixteen industry sectors which comprise the EURO STOXX 50® Index represent the following weights in the index: Automobiles & Parts (4.36%), Banks (12.41%), Chemicals (5.06%), Construction & Materials (3.83%), Food & Beverage (4.31%), Health Care (10.43%), Industrial Goods & Services (11.48%), Insurance (6.73%), Media (0.99%), Oil & Gas (8.02%), Personal & Household Goods (10.49%), Real Estate (1.05%), Retail (2.43%), Technology (8.89%), Telecommunications (4.51%) and Utilities (5.00%); industry weightings may be found at stoxx.com/download/indices/factsheets/SX5GT.pdf under “Factsheets and Methodologies” and are updated periodically. Percentages may not sum to 100% due to rounding. Sector designations are determined by the index sponsor using criteria it has selected or developed. Index sponsors may use very different standards for determining sector designations. In addition, many companies operate in a number of sectors, but are listed in only one sector and the basis on which that sector is selected may also differ. As a result, sector comparisons between indices with different index sponsors may reflect differences in methodology as well as actual differences in the sector composition of the indices.

As of September 12, 2018, the eight countries which comprise the EURO STOXX 50® Index represent the following weights in the index: Belgium (2.51%), Finland (1.12%), France (39.42%), Germany (31.71%), Ireland (1.00%), Italy (4.81%), Netherlands (10.67%) and Spain (8.75%); country weightings may be found at stoxx.com/download/indices/factsheets/SX5GT.pdf under “Factsheets and Methodologies” and are updated periodically.

EURO STOXX 50® Index Composition.

The EURO STOXX 50® Index is composed of 50 index stocks chosen by STOXX Limited from the 19 EURO STOXX Supersector indices, which represent the Eurozone portion of the STOXX Europe 600 Supersector indices. The 19 supersectors from which stocks are selected for the EURO STOXX 50® Index are Automobiles & Parts, Banks, Basic Resources, Chemicals, Construction & Materials, Financial Services, Food & Beverages, Health Care, Industrial Goods & Services, Insurance, Media, Oil & Gas, Personal & Household Goods, Real Estate, Retail, Technology, Telecommunications, Travel & Leisure and Utilities, although stocks from each of these supersectors are not necessarily included at a given time.

Table of Contents

Component Selection

The composition of the EURO STOXX 50® Index is reviewed by STOXX Limited annually in September. Within each of the 19 EURO STOXX Supersector indices, the respective index component stocks are ranked by free-float market capitalization. The largest stocks are added to the selection list until the coverage is close to, but still less than, 60% of the free-float market capitalization of the corresponding EURO STOXX Total Market Index Supersector Index. If the next highest-ranked stock brings the coverage closer to 60% in absolute terms, then it is also added to the selection list. All remaining stocks that are current EURO STOXX 50® Index components are then added to the selection list. The stocks on the selection list are then ranked by free-float market capitalization. The 40 largest stocks on the selection list are chosen as index components. The remaining 10 stocks are then selected from the largest current stocks ranked between 41 and 60. If the number of index components is still below 50, then the largest remaining stocks on the selection list are added until the EURO STOXX 50® Index contains 50 stocks. In exceptional cases, the STOXX Limited Management Board may make additions and deletions to the selection list.

Ongoing Maintenance of Component Stocks

The component stocks of the EURO STOXX 50® Index are monitored on an ongoing monthly basis for deletion and quarterly basis for addition. Changes to the composition of the EURO STOXX 50® Index due to corporate actions (including mergers and takeovers, spin-offs, sector changes and bankruptcy) are announced immediately, implemented two trading days later and become effective on the next trading day after implementation.

The component stocks of the EURO STOXX 50® Index are subject to a “fast exit” rule. A component stock is deleted if it ranks 75 or below on the monthly selection list and it ranked 75 or below on the selection list of the previous month. The highest-ranked non-component stock will replace the exiting component stock. The EURO STOXX 50® Index is also subject to a “fast entry” rule. All stocks on the latest selection lists and initial public offering (IPO) stocks are reviewed for a fast-track addition on a quarterly basis. A stock is added if it qualifies for the latest blue-chip selection list generated at the end of February, May, August or November and if it ranks within the lower buffer (between 1 and 25) on the selection list. If added, the stock replaces the smallest component stock.

A deleted stock is replaced immediately to maintain the fixed number of stocks. The replacement is based on the latest monthly selection list. In the case of a merger or takeover where a component stock is involved, the original component stock is replaced by the new component stock. In the case of a spin-off, if the original stock was a component stock, then each spin-off stock qualifies for addition if it lies within the lower buffer (between 1 and 40) on the latest selection list. The largest qualifying spin-off stock replaces the original component stock, while the next qualifying spin-off stock replaces the lowest ranked component stock and likewise for other qualifying spin-off stocks.

The free float factors and outstanding number of shares for each index stock that STOXX Limited uses to calculate the EURO STOXX 50® Index, as described below, are reviewed, calculated and implemented on a quarterly basis and are fixed until the next quarterly review. Certain extraordinary adjustments to the free float factors and/or the number of outstanding shares are implemented and made effective more quickly. The timing depends on the magnitude of the change. Each component’s weight is capped at 10% of the EURO STOXX 50® Index’s total free float market capitalization. The free float factor reduces the index stock’s number of shares to the actual amount available on the market. All holdings that are larger than five percent of the total outstanding number of shares and held on a long-term basis are excluded from the index calculation (including, but not limited to, stock owned by the company itself, stock owned by governments, stock owned by certain individuals or families, and restricted shares).

Index Calculation

STOXX Limited calculates the EURO STOXX 50® Index using the “Laspeyres formula,” which measures the aggregate price changes in the index stocks against a fixed base quantity weight. The discussion below describes the “price return” calculation of the EURO STOXX 50® Index.

The formula for calculating the EURO STOXX 50® Index value can be expressed as follows:

Table of Contents

$$\text{EURO STOXX 50}^{\text{®}} \text{ Index} = \frac{\text{Free Float Market Capitalization of the EURO STOXX 50}^{\text{®}} \text{ Index}}{\text{Divisor}}$$

The “free float market capitalization of the EURO STOXX 50[®] Index” is equal to the sum of the product of the price, the number of shares, the free float factor and the weighting cap factor for each index stock as of the time the EURO STOXX 50[®] Index is being calculated. The index stocks trade in Euros and thus, no currency conversion is required. Where any index component stock price is unavailable on any trading day, the index sponsor will generally use the last reported price for such component stock.

In case the investability and tradability of the index and index based products is affected by an upcoming market or company event that is considered significant or “extreme” by the STOXX Management Board, the following actions or a combination of the following actions are taken. For all such changes a minimum notification period of two full trading days will be observed. The action scope may include but is not limited to:

- application of expert judgment for index component pricing data,
- adjustment of operational procedures,
- postponement of index adjustments,
- adjustment of selection lists,
- change of weights of index constituents by adjusting the number of shares, free-float factors or weighting cap-factors, or
- adjustment of index compositions.

EURO STOXX 50 Divisor

The EURO STOXX 50[®] Index is calculated using a divisor that helps to maintain the continuity of the index’s value so that corporate actions do not artificially increase or decrease the level of the EURO STOXX 50[®] Index.

The divisor is calculated by starting with the previous divisor in effect for the EURO STOXX 50[®] Index (which we call the “original divisor value”) and multiplying it by a fraction, the numerator of which is the previous free float market capitalization of the EURO STOXX 50[®] Index, plus or minus the difference between the closing market capitalization of the EURO STOXX 50[®] Index and the adjusted closing market capitalization of the EURO STOXX 50[®] Index, and the denominator of which is the previous free float market capitalization of the EURO STOXX 50.

The adjusted free float market capitalization is calculated for stocks of companies that have experienced a corporate action of the type described below as of the time the new divisor value is being calculated using the free float market capitalization calculated with adjusted closing prices, the new number of shares, and the new free float factor minus the free float market capitalization calculated with that stock’s original closing price, number of shares, and free float factor, in each case as used in calculating the original divisor value. Errors in divisor calculation are corrected on an intraday basis if discovered on the same day the new divisor is effective. If the error is discovered later, the error is corrected on an intraday basis if feasible and only if the error is considered significant by the STOXX Limited Management Board.

Divisor Adjustments

STOXX Limited adjusts the divisor for the EURO STOXX 50[®] Index to maintain the continuity of the EURO STOXX 50[®] Index values across changes due to corporate actions. Changes in weights due to corporate actions are distributed proportionally across all index components and equal an investment into the portfolio. The following is a summary of the adjustments to any index stock made for corporate actions and the effect of such adjustments on the divisor, where shareholders of the index stock will receive “B” new shares for every “A” share held (where applicable) and assuming that the version of the index to which your

Table of Contents

notes are linked is the price return version. All adjusted prices consider withholding taxes based on the new shares being distributed, using “ $B * (1 - \text{withholding tax where applicable})$ ”.

(1) Special cash dividend:

Adjusted price = closing price – dividend announced by the company * (1- withholding tax if applicable)

Divisor: decreases

(2) Split and reverse split:

Adjusted price = closing price * A / B

New number of shares = old number of shares * B / A

Divisor: no change

(3) Rights offering:

Adjusted price = (closing price * A + subscription price * B) / (A + B)

New number of shares = old number of shares * (A + B) / A

Divisor: increases

If the subscription price is not available or if the subscription price is equal to or greater than the closing price on the day before the effective date, then no adjustment is made.

Extremely dilutive rights issues having a share ratio larger or equal to 2000% ($B/A \geq 20$) are treated as follows:

STOXX will announce the deletion of the company from the index following the standard rules for index replacements if sufficient notice of two trading days before the ex-date can be given.

The company may enter the index again at the next periodic index review, but only after the new rights issue shares have been listed.

Extremely dilutive rights issues for which two trading days' notice before the ex-date cannot be given, and all highly dilutive rights issues having a share ratio larger or equal to 200% ($B/A > 2$) are treated as follows:

- The rights issue shares are included into the index with a theoretical price on the ex-date;
- The rights issue shares must be listed on an eligible stock exchange and tradable starting on the ex-date, otherwise, only a price adjustment is made and the rights are not included;
- The rights issue shares will have the same parameters as the parent company;
- The rights issue shares will be removed at the close of the day they start to trade with traded price being available; and
- The number of shares and weighting factors will be increased after the new rights issue shares have been listed.

(4) Stock dividend:

Adjusted price = closing price * A / (A + B)

New number of shares = old number of shares * (A + B) / A

Divisor: no change

(5) Stock dividend from treasury stock if treated as extraordinary dividend:

Adjusted close = close – close * B / (A + B)

Divisor: decreases

(6) Stock dividend of another company:

Table of Contents

Adjusted price = (closing price * A – price of other company * B) / A

Divisor: decreases

(7) Return of capital and share consolidation:

Adjusted price = [closing price – capital return announced by company * (1– withholding tax)] * A / B

New number of shares = old number of shares * B / A

Divisor: decreases

(8) Repurchase of shares / self-tender:

Adjusted price = [(price before tender * old number of shares) – (tender price * number of tendered shares)] / (old number of shares – number of tendered shares)

New number of shares = old number of shares – number of tendered shares

Divisor: decreases

(9) Spin– off:

Adjusted price = (closing price * A – price of spin–off shares * B) / A

Divisor: decreases

(10) Combination stock distribution (dividend or split) and rights offering:

For this corporate action, the following additional assumptions apply:

Shareholders receive B new shares from the distribution and C new shares from the rights offering for every A share held; and

If A is not equal to one, all the following “new number of shares” formulae need to be divided by A.

If rights are applicable after stock distribution (one action applicable to another):

Adjusted price = [closing price * A + subscription price * C * (1 + B / A)] / [(A + B) * (1 + C / A)]

New number of shares = old number of shares * [(A + B) * (1 + C / A)] / A

Divisor: increases

If stock distribution is applicable after rights (one action applicable to another):

Adjusted price = (closing price * A + subscription price * C) / [(A + C) * (1 + B / A)]

New number of shares = old number of shares * [(A + C) * (1 + B / A)]

Divisor: increases

Stock distribution and rights (neither action is applicable to the other):

Adjusted price = (closing price * A + subscription price * C) / (A + B + C)

New number of shares = old number of shares * (A + B + C) / A

Divisor: increases

(11) Addition/deletion of a company

No price adjustments are made. The net change in market capitalization determines the divisor adjustment.

(12) Free float and shares changes

No price adjustments are made. The net change in market capitalization determines the divisor adjustment.

License Agreement between STOXX Limited and Goldman Sachs

Table of Contents

STOXX and its licensors (the “Licensors”) have no relationship to GS Finance Corp., other than the licensing of the EURO STOXX 50® Index and the related trademarks for use in connection with the notes.

STOXX and its Licensors do not:

- Sponsor, endorse, sell or promote the notes.
- Recommend that any person invest in the notes or any other securities.
- Have any responsibility or liability for or make any decisions about the timing, amount or pricing of the notes.
- Have any responsibility or liability for the administration, management or marketing of the notes.
- Consider the needs of the notes or the owners of the notes in determining, composing or calculating the EURO STOXX 50® Index or have any obligation to do so.

STOXX and its Licensors will not have any liability in connection with the notes. Specifically,

- STOXX and its Licensors do not make any warranty, express or implied and disclaim any and all warranty about:
 - The results to be obtained by the notes, the owner of the notes or any other person in connection with the use of the EURO STOXX 50® Index and the data included in the EURO STOXX 50® Index;
 - The accuracy or completeness of the EURO STOXX 50® Index and its data;
 - The merchantability and the fitness for a particular purpose or use of the EURO STOXX 50® Index and its data;
- STOXX and its Licensors will have no liability for any errors, omissions or interruptions in the EURO STOXX 50® Index or its data;
- Under no circumstances will STOXX or its Licensors be liable for any lost profits or indirect, punitive, special or consequential damages or losses, even if STOXX or its Licensors knows that they might occur.

The licensing agreement between Goldman Sachs International and STOXX is solely for their benefit, and the benefit of certain affiliates of Goldman Sachs International, and not for the benefit of the owners of the notes or any other third parties.

Table of Contents

Historical Closing Levels of the Indices

The closing levels of the indices have fluctuated in the past and may, in the future, experience significant fluctuations. Any historical upward or downward trend in the closing level of any index during the period shown below is not an indication that such index is more or less likely to increase or decrease at any time during the life of your notes.

You should not take the historical closing levels of an index as an indication of the future performance of an index.

We cannot give you any assurance that the future performance of any index or the index stocks will result in you receiving any coupon payments or receiving the outstanding face amount of your notes on the stated maturity date.

Neither we nor any of our affiliates make any representation to you as to the performance of the indices. Before investing in the offered notes, you should consult publicly available information to determine the relevant index levels between the date of this document and the date of your purchase of the offered notes. The actual performance of an index over the life of the offered notes, as well as the cash settlement amount at maturity may bear little relation to the historical levels shown below.

The graphs below show the daily historical closing levels of each index from October 5, 2008 through October 5, 2018. We obtained the closing levels in the graphs below from Bloomberg Financial Services, without independent verification. Although the official closing levels of the Russell 2000® Index are published to six decimal places by the index sponsor, Bloomberg Financial Services reports the levels of the Russell 2000® Index to fewer decimal places.

S-54

Table of Contents

S-55

Table of Contents

Correlation of the Indices

The graph below shows the historical closing levels of each index from October 5, 2008 through October 5, 2018. For comparison purposes, each index has been adjusted to have a closing level of 100.00 on October 5, 2008 by dividing the closing level of that index on each day by the closing level of that index on October 5, 2008 and multiplying by 100.00. We obtained the closing levels used to determine the adjusted closing levels in the graph below from Bloomberg Financial Services, without independent verification. You should not take the historical performance of the indices as an indication of the future performance of the indices.

Movements in the values of the indices may be correlated or uncorrelated at different times during the term of the notes and, if there is correlation, such correlation may be positive (the indices move in the same direction) or negative (the indices move in reverse directions). The more similar the movements of the daily returns of the indices over the given period, the more positively correlated those indices are. The graph above illustrates the historical performance of each index relative to the other indices over the time period shown and provides an indication of how the relative performance of the daily returns of one index has historically been to another. However, it is the actual level of the lesser performing index (and not the level of historical correlation between the indices) that determines the return on your notes.

Please read “Additional Risk Factors Specific to Your Notes—You Are Exposed to the Market Risk of Each Index” on page S-16 of this document.

S-56

Table of Contents

SUPPLEMENTAL DISCUSSION OF FEDERAL INCOME TAX CONSEQUENCES

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus. The following section is the opinion of Sidley Austin LLP, counsel to GS Finance Corp. and The Goldman Sachs Group, Inc. In addition, it is the opinion of Sidley Austin LLP that the characterization of the notes for U.S. federal income tax purposes that will be required under the terms of the notes, as discussed below, is a reasonable interpretation of current law.

This section does not apply to you if you are a member of a class of holders subject to special rules, such as:

- a dealer in securities or currencies;
- a trader in securities that elects to use a mark-to-market method of accounting for your securities holdings;
- a bank;
- a life insurance company;
- a regulated investment company;
- an accrual method taxpayer subject to special tax accounting rules as a result of its use of financial statements;
- a tax exempt organization;
- a partnership;
- a person that owns a note as a hedge or that is hedged against interest rate risks;
- a person that owns a note as part of a straddle or conversion transaction for tax purposes; or
- a United States holder (as defined below) whose functional currency for tax purposes is not the U.S. dollar.

Although this section is based on the U.S. Internal Revenue Code of 1986, as amended, its legislative history, existing and proposed regulations under the Internal Revenue Code, published rulings and court decisions, all as currently in effect, no statutory, judicial or administrative authority directly discusses how your notes should be treated for U.S. federal income tax purposes, and as a result, the U.S. federal income tax consequences of your investment in your notes are uncertain. Moreover, these laws are subject to change, possibly on a retroactive basis.

You should consult your tax advisor concerning the U.S. federal income tax and other tax consequences of your investment in the notes, including the application of state, local or other tax laws and the possible effects of changes in federal or other tax laws.

United States Holders

This section applies to you only if you are a United States holder that holds your notes as a capital asset for tax purposes. You are a United States holder if you are a beneficial owner of a note and you are:

- a citizen or resident of the United States;

Table of Contents

- a domestic corporation;
- an estate whose income is subject to U.S. federal income tax regardless of its source; or
- a trust if a United States court can exercise primary supervision over the trust's administration and one or more United States persons are authorized to control all substantial decisions of the trust.

Tax Treatment. You will be obligated pursuant to the terms of the notes — in the absence of a change in law, an administrative determination or a judicial ruling to the contrary — to characterize your notes for all tax purposes as income-bearing pre-paid derivative contracts in respect of the indices. Except as otherwise stated below, the discussion below assumes that the notes will be so treated.

Coupon payments that you receive should be included in ordinary income at the time you receive the payment or when the payment accrues, in accordance with your regular method of accounting for U.S. federal income tax purposes.

Upon the sale, exchange, redemption or maturity of your notes, you should recognize capital gain or loss equal to the difference between the amount realized on the sale, exchange, redemption or maturity (excluding any amounts attributable to accrued and unpaid coupon payments, which will be taxable as described above) and your tax basis in your notes. Your tax basis in your notes will generally be equal to the amount that you paid for the notes. Such capital gain or loss should generally be short-term capital gain or loss if you hold the notes for one year or less, and should be long-term capital gain or loss if you hold the notes for more than one year. Short-term capital gains are generally subject to tax at the marginal tax rates applicable to ordinary income.

No statutory, judicial or administrative authority directly discusses how your notes should be treated for U.S. federal income tax purposes. As a result, the U.S. federal income tax consequences of your investment in the notes are uncertain and alternative characterizations are possible. Accordingly, we urge you to consult your tax advisor in determining the tax consequences of an investment in your notes in your particular circumstances, including the application of state, local or other tax laws and the possible effects of changes in federal or other tax laws.

Alternative Treatments. There is no judicial or administrative authority discussing how your notes should be treated for U.S. federal income tax purposes. Therefore, the Internal Revenue Service might assert that a treatment other than that described above is more appropriate. For example, the Internal Revenue Service could treat your notes as a single debt instrument subject to special rules governing contingent payment debt instruments.

Under those rules, the amount of interest you are required to take into account for each accrual period would be determined by constructing a projected payment schedule for the notes and applying rules similar to those for accruing original issue discount on a hypothetical noncontingent debt instrument with that projected payment schedule. This method is applied by first determining the comparable yield — i.e., the yield at which we would issue a noncontingent fixed rate debt instrument with terms and conditions similar to your notes — and then determining a payment schedule as of the applicable original issue date that would produce the comparable yield. These rules may have the effect of requiring you to include interest in income in respect of your notes prior to your receipt of cash attributable to that income.

If the rules governing contingent payment debt instruments apply, any income you recognize upon the sale, exchange, redemption or maturity of your notes would be treated as ordinary interest income. Any loss you recognize at that time would be treated as ordinary loss to the extent of interest you included as income in the current or previous taxable years in respect of your notes, and, thereafter, as capital loss.

If the rules governing contingent payment debt instruments apply, special rules would apply to persons who purchase a note at other than the adjusted issue price as determined for tax purposes.

It is possible that the Internal Revenue Service could assert that your notes should generally be characterized as described above, except that (1) the gain you recognize upon the sale, exchange,

Table of Contents

redemption or maturity of your notes should be treated as ordinary income or (2) you should not include the coupon payments in income as you receive them but instead you should reduce your basis in your notes by the amount of coupon payments that you receive. It is also possible that the Internal Revenue Service could seek to characterize your notes in a manner that results in tax consequences to you different from those described above.

It is also possible that the Internal Revenue Service could seek to characterize your notes as notional principal contracts. It is also possible that the coupon payments would not be treated as either ordinary income or interest for U.S. federal income tax purposes, but instead would be treated in some other manner.

You should consult your tax advisor as to possible alternative characterizations of your notes for U.S. federal income tax purposes.

Possible Change in Law

In 2007, legislation was introduced in Congress that, if enacted, would have required holders that acquired instruments such as your notes after the bill was enacted to accrue interest income over the term of such instruments. It is not possible to predict whether a similar or identical bill will be enacted in the future, or whether any such bill would affect the tax treatment of your notes.

In addition, on December 7, 2007, the Internal Revenue Service released a notice stating that the Internal Revenue Service and the Treasury Department are actively considering issuing guidance regarding the proper U.S. federal income tax treatment of an instrument such as the offered notes including whether the holders should be required to accrue ordinary income on a current basis and whether gain or loss should be ordinary or capital. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the notes will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The Internal Revenue Service and the Treasury Department are also considering other relevant issues, including whether foreign holders of such instruments should be subject to withholding tax on any deemed income accruals and whether the special “constructive ownership rules” of Section 1260 of the Internal Revenue Code might be applied to such instruments. Except to the extent otherwise provided by law, GS Finance Corp. intends to continue treating the notes for U.S. federal income tax purposes in accordance with the treatment described above unless and until such time as Congress, the Treasury Department or the Internal Revenue Service determine that some other treatment is more appropriate.

It is impossible to predict what any such legislation or administrative or regulatory guidance might provide, and whether the effective date of any legislation or guidance will affect notes that were issued before the date that such legislation or guidance is issued. You are urged to consult your tax advisor as to the possibility that any legislative or administrative action may adversely affect the tax treatment of your notes.

United States Alien Holders

This section applies to you only if you are a United States alien holder. You are a United States alien holder if you are the beneficial owner of the notes and are, for U.S. federal income tax purposes:

- a nonresident alien individual;
- a foreign corporation; or
- an estate or trust that in either case is not subject to U.S. federal income tax on a net income basis on income or gain from the notes.

Because the U.S. federal income tax treatment (including the applicability of withholding) of the coupon payments on the notes is uncertain, in the absence of further guidance, we intend to withhold on the coupon payments made to you at a 30% rate or at a lower rate specified by an applicable income tax treaty under an

Table of Contents

“other income” or similar provision. We will not make payments of any additional amounts. To claim a reduced treaty rate for withholding, you generally must provide a valid Internal Revenue Service Form W-8BEN, Internal Revenue Service Form W-8BEN-E, or an acceptable substitute form upon which you certify, under penalty of perjury, your status as a United States alien holder and your entitlement to the lower treaty rate. Payments will be made to you at a reduced treaty rate of withholding only if such reduced treaty rate would apply to any possible characterization of the payments (including, for example, if the coupon payments were characterized as contract fees). Withholding also may not apply to coupon payments made to you if: (i) the coupon payments are “effectively connected” with your conduct of a trade or business in the United States and are includable in your gross income for U.S. federal income tax purposes, (ii) the coupon payments are attributable to a permanent establishment that you maintain in the United States, if required by an applicable tax treaty, and (iii) you comply with the requisite certification requirements (generally, by providing an Internal Revenue Service Form W-8ECI). If you are eligible for a reduced rate of United States withholding tax, you may obtain a refund of any amounts withheld in excess of that rate by filing a refund claim with the Internal Revenue Service.

“Effectively connected” payments includable in your United States gross income are generally taxed at rates applicable to United States citizens, resident aliens, and domestic corporations; if you are a corporate United States alien holder, “effectively connected” payments may be subject to an additional “branch profits tax” under certain circumstances. You will also be subject to generally applicable information reporting and backup withholding requirements with respect to payments on your notes and, notwithstanding that we do not intend to treat the notes as debt for tax purposes, we intend to backup withhold on such payments with respect to your notes unless you comply with the requirements necessary to avoid backup withholding on debt instruments (in which case you will not be subject to such backup withholding) as set forth under “United States Taxation – Taxation of Debt Securities – United States Alien Holders” in the accompanying prospectus.

Furthermore, on December 7, 2007, the Internal Revenue Service released Notice 2008-2 soliciting comments from the public on various issues, including whether instruments such as your notes should be subject to withholding. It is therefore possible that rules will be issued in the future, possibly with retroactive effects, that would cause payments on your notes to be subject to withholding, even if you comply with certification requirements as to your foreign status.

As discussed above, alternative characterizations of the notes for U.S. federal income tax purposes are possible. Should an alternative characterization of the notes, by reason of a change or clarification of the law, by regulation or otherwise, cause payments with respect to the notes to become subject to withholding tax, we will withhold tax at the applicable statutory rate and we will not make payments of any additional amounts. Prospective United States alien holders of the notes should consult their tax advisors in this regard.

In addition, the Treasury Department has issued regulations under which amounts paid or deemed paid on certain financial instruments (“871(m) financial instruments”) that are treated as attributable to U.S.-source dividends could be treated, in whole or in part depending on the circumstances, as a “dividend equivalent” payment that is subject to tax at a rate of 30% (or a lower rate under an applicable treaty), which in the case of any coupon payments and any amounts you receive upon the sale, exchange, redemption or maturity of your notes, could be collected via withholding. If these regulations were to apply to the notes, we may be required to withhold such taxes if any U.S.-source dividends are paid on the stocks included in the indices during the term of the notes. We could also require you to make certifications (e.g., an applicable Internal Revenue Service Form W-8) prior to any coupon payment or the maturity of the notes in order to avoid or minimize withholding obligations, and we could withhold accordingly (subject to your potential right to claim a refund from the Internal Revenue Service) if such certifications were not received or were not satisfactory. If withholding was required, we would not be required to pay any additional amounts with respect to amounts so withheld. These regulations generally will apply to 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) issued (or significantly modified and treated as retired and reissued) on or after January 1, 2021, but will also apply to certain 871(m) financial instruments (or a combination of financial instruments treated as having been entered into in connection with each other) that have a delta (as defined in the applicable

Table of Contents

Treasury regulations) of one and are issued (or significantly modified and treated as retired and reissued) on or after January 1, 2017. In addition, these regulations will not apply to financial instruments that reference a “qualified index” (as defined in the regulations). We have determined that, as of the issue date of your notes, your notes will not be subject to withholding under these rules. In certain limited circumstances, however, you should be aware that it is possible for United States alien holders to be liable for tax under these rules with respect to a combination of transactions treated as having been entered into in connection with each other even when no withholding is required. You should consult your tax advisor concerning these regulations, subsequent official guidance and regarding any other possible alternative characterizations of your notes for U.S. federal income tax purposes.

Foreign Account Tax Compliance Act (FATCA) Withholding

Pursuant to Treasury regulations, Foreign Account Tax Compliance Act (FATCA) withholding (as described in “United States Taxation—Taxation of Debt Securities—Foreign Account Tax Compliance Act (FATCA) Withholding” in the accompanying prospectus) will generally apply to obligations that are issued on or after July 1, 2014; therefore, the notes will generally be subject to FATCA withholding. However, according to published guidance, the withholding tax described above will not apply to payments of gross proceeds from the sale, exchange, redemption or other disposition of the notes made before January 1, 2019.

S-61

Table of Contents

EMPLOYEE RETIREMENT INCOME SECURITY ACT

This section is only relevant to you if you are an insurance company or the fiduciary of a pension plan or an employee benefit plan (including a governmental plan, an IRA or a Keogh Plan) proposing to invest in the notes.

The U.S. Employee Retirement Income Security Act of 1974, as amended (“ERISA”) and the U.S. Internal Revenue Code of 1986, as amended (the “Code”), prohibit certain transactions (“prohibited transactions”) involving the assets of an employee benefit plan that is subject to the fiduciary responsibility provisions of ERISA or Section 4975 of the Code (including individual retirement accounts, Keogh plans and other plans described in Section 4975(e)(1) of the Code) (a “Plan”) and certain persons who are “parties in interest” (within the meaning of ERISA) or “disqualified persons” (within the meaning of the Code) with respect to the Plan; governmental plans may be subject to similar prohibitions unless an exemption applies to the transaction. The assets of a Plan may include assets held in the general account of an insurance company that are deemed “plan assets” under ERISA or assets of certain investment vehicles in which the Plan invests. Each of The Goldman Sachs Group, Inc. and certain of its affiliates may be considered a “party in interest” or a “disqualified person” with respect to many Plans, and, accordingly, prohibited transactions may arise if the notes are acquired by or on behalf of a Plan unless those notes are acquired and held pursuant to an available exemption. In general, available exemptions are: transactions effected on behalf of that Plan by a “qualified professional asset manager” (prohibited transaction exemption 84-14) or an “in-house asset manager” (prohibited transaction exemption 96-23), transactions involving insurance company general accounts (prohibited transaction exemption 95-60), transactions involving insurance company pooled separate accounts (prohibited transaction exemption 90 1), transactions involving bank collective investment funds (prohibited transaction exemption 91-38) and transactions with service providers under Section 408(b)(17) of ERISA and Section 4975(d)(20) of the Code where the Plan receives no less and pays no more than “adequate consideration” (within the meaning of Section 408(b)(17) of ERISA and Section 4975(f)(10) of the Code). The person making the decision on behalf of a Plan or a governmental plan shall be deemed, on behalf of itself and the plan, by purchasing and holding the notes, or exercising any rights related thereto, to represent that (a) the plan will receive no less and pay no more than “adequate consideration” (within the meaning of Section 408(b)(17) of ERISA and Section 4975(f)(10) of the Code) in connection with the purchase and holding of the notes, (b) none of the purchase, holding or disposition of the notes or the exercise of any rights related to the notes will result in a nonexempt prohibited transaction under ERISA or the Code (or, with respect to a governmental plan, under any similar applicable law or regulation), and (c) neither The Goldman Sachs Group, Inc. nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA) or, with respect to a governmental plan, under any similar applicable law or regulation) with respect to the purchaser or holder in connection with such person's acquisition, disposition or holding of the notes, or as a result of any exercise by The Goldman Sachs Group, Inc. or any of its affiliates of any rights in connection with the notes, and neither The Goldman Sachs Group, Inc. nor any of its affiliates has provided investment advice in connection with such person’s acquisition, disposition or holding of the notes.

If you are an insurance company or the fiduciary of a pension plan or an employee benefit plan (including a governmental plan, an IRA or a Keogh plan), and propose to invest in the notes, you should consult your legal counsel.

Table of Contents

SUPPLEMENTAL PLAN OF DISTRIBUTION

GS Finance Corp. expects to agree to sell to GS&Co., and GS&Co. expects to agree to purchase from GS Finance Corp., the aggregate face amount of the offered notes specified on the front cover of this document. GS&Co. proposes initially to offer the notes to the public at the original issue price set forth on the cover page of this document, and to UBS Financial Services Inc. at such price less a concession not in excess of 1.25% of the face amount.

In connection with the initial offering of the notes, the minimum face amount of notes that may be purchased by any investor is \$1,000.

In the future, GS&Co. or other affiliates of GS Finance Corp. may repurchase and resell the offered notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices. GS Finance Corp. estimates that its share of the total offering expenses, excluding underwriting discounts and commissions, will be approximately \$. For more information about the plan of distribution and possible market-making activities, see “Plan of Distribution” in the accompanying prospectus.

We expect to deliver the notes against payment therefor in New York, New York on October 12, 2018. Under Rule 15c6-1 of the Securities Exchange Act of 1934, trades in the secondary market generally are required to settle in two business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade notes on any date prior to two business days before delivery will be required to specify alternative settlement arrangements to prevent a failed settlement.

We have been advised by GS&Co. that it intends to make a market in the notes. However, neither GS&Co. nor any of our other affiliates that makes a market is obligated to do so and any of them may stop doing so at any time without notice. No assurance can be given as to the liquidity or trading market for the notes.

Any notes which are the subject of the offering contemplated by this prospectus supplement, the accompanying prospectus and the accompanying prospectus supplement may not be offered, sold or otherwise made available to any retail investor in the European Economic Area. Consequently no key information document required by Regulation (EU) No 1286/2014 (the “PRIIPs Regulation”) for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared and therefore offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation. For the purposes of this provision:

(a) the expression “retail investor” means a person who is one (or more) of the following:

- (i) a retail client as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, “MiFID II”); or
- (ii) a customer within the meaning of Directive 2002/92/EC (as amended, the “Insurance Mediation Directive”), where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or
- (iii) not a qualified investor as defined in Directive 2003/71/EC (as amended, the “Prospectus Directive”); and the expression an “offer” includes the communication in any form and by any means of sufficient information on the (b) 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.

In relation to each Member State of the European Economic Area which has implemented the Prospectus Directive (each, a “Relevant Member State”), GS&Co. has represented and agreed that with effect from and including the date on which the Prospectus Directive is implemented in that Relevant Member State (the “Relevant Implementation Date”) it has not made and will not make an offer of notes which are the subject of the offering contemplated by this document, the accompanying prospectus and the accompanying prospectus supplement to the public in that Relevant Member State except that, with effect from and including the Relevant Implementation Date, an offer of such notes may be made to the public in that Relevant Member State:

- a) at any time to any legal entity which is a qualified investor as defined in the Prospectus Directive;
- at any time 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 relevant dealer or dealers nominated by the issuer for any such offer; or
- c) at any time in any other circumstances falling within Article 3(2) of the Prospectus Directive,

provided that no such offer of notes referred to above shall require us or any dealer to publish a prospectus pursuant to Article 3 of the Prospectus Directive.

S-63

Table of Contents

For the purposes 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 Member State by any measure implementing the Prospectus Directive in that Member State and the expression “Prospectus Directive” means Directive 2003/71/EC (as amended, including by Directive 2010/73/EU), and includes any relevant implementing measure in the Relevant Member State.

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 GS Finance Corp. or The Goldman Sachs Group, Inc.

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.

The notes may not be offered or sold in Hong Kong by means of any document other than (i) to “professional investors” as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) and any rules made thereunder, or (ii) in other circumstances which do not result in the document being a “prospectus” as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32 of the Laws of Hong Kong) or which do not constitute an offer to the public within the meaning of that Ordinance; 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 securities laws of Hong Kong) other than with respect to the notes which are or are intended to be disposed of only to persons outside Hong Kong or only to “professional investors” as defined in the Securities and Futures Ordinance and any rules made thereunder.

This document, along with the accompanying prospectus supplement and the accompanying prospectus have not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this document, along with the accompanying prospectus supplement and 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 persons in Singapore other than (i) to an institutional investor (as defined in Section 4A of the Securities and Futures Act, Chapter 289 of Singapore (the “SFA”)) under Section 274 of the SFA, (ii) to a relevant person (as defined in Section 275(2) of the SFA) pursuant to Section 275(1) of the SFA, or any person pursuant to 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 provision of the SFA, in each case subject to conditions set forth in the SFA.

Where the notes are subscribed or purchased under Section 275 of the SFA by a relevant person which is a corporation (which is not an accredited investor (as defined in Section 4A of the SFA)) 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, the securities (as defined in Section 239(1) of the SFA) of that corporation shall not be transferable for six months after that corporation has acquired the notes under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer in that corporation’s securities pursuant to Section 275(1A) of the SFA, (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32 of the Securities and Futures (Offers of Investments) (Shares and Debentures) Regulations 2005 of Singapore (“Regulation 32”).

Where the notes are subscribed or purchased under Section 275 of the SFA by a relevant person which is a trust (where the trustee is not an accredited investor (as defined in Section 4A of the SFA)) whose sole purpose is to hold investments and each beneficiary of the trust is an accredited investor, the beneficiaries’ rights and interest (howsoever described) in that trust shall not be transferable for six months after that trust has acquired the notes under Section 275 of the SFA except: (1) to an institutional investor under Section 274 of the SFA or to a relevant person (as defined in Section 275(2) of the SFA), (2) where such transfer arises from an offer that is made on terms that such rights or interest are acquired at a consideration of not less than S\$200,000 (or its equivalent in a foreign currency) for each

transaction (whether such amount is to be paid for in cash or by exchange of securities or other assets), (3) where no consideration is or will be given for the transfer, (4) where the transfer is by operation of law, (5) as specified in Section 276(7) of the SFA, or (6) as specified in Regulation 32.

The notes have not been and will not be registered under the Financial Instruments and Exchange Act of Japan (Act No. 25 of 1948, as amended), or the FIEA. The notes may not be offered or sold, directly or indirectly, in Japan or to or for the benefit of any resident of Japan (including any person resident in Japan or any corporation or other entity

S-64

Table of Contents

organized under the laws of Japan) or to others for reoffering or resale, directly or indirectly, in Japan or to or for the benefit of any resident of Japan, except pursuant to an exemption from the registration requirements of the FIEA and otherwise in compliance with any relevant laws and regulations of Japan.

The notes are not offered, sold or advertised, directly or indirectly, in, into or from Switzerland on the basis of a public offering and will not be listed on the SIX Swiss Exchange or any other offering or regulated trading facility in Switzerland. Accordingly, neither this document nor any accompanying prospectus supplement, prospectus or other marketing material constitute a prospectus as defined in article 652a or article 1156 of the Swiss Code of Obligations or a listing prospectus as defined in article 32 of the Listing Rules of the SIX Swiss Exchange or any other regulated trading facility in Switzerland. Any resales of the notes by the underwriters thereof may only be undertaken on a private basis to selected individual investors in compliance with Swiss law. This document and accompanying prospectus and prospectus supplement may not be copied, reproduced, distributed or passed on to others or otherwise made available in Switzerland without our prior written consent. By accepting this document and accompanying prospectus and prospectus supplement or by subscribing to the notes, investors are deemed to have acknowledged and agreed to abide by these restrictions. Investors are advised to consult with their financial, legal or tax advisers before investing in the notes.

Conflicts of Interest

GS&Co. is an affiliate of GS Finance Corp. and The Goldman Sachs Group, Inc. and, as such, will have a “conflict of interest” in this offering of notes within the meaning of Financial Industry Regulatory Authority, Inc. (FINRA) Rule 5121. Consequently, this offering of notes will be conducted in compliance with the provisions of FINRA Rule 5121. GS&Co. will not be permitted to sell notes in this offering to an account over which it exercises discretionary authority without the prior specific written approval of the account holder.

S-65

Table of Contents

We have not authorized anyone to provide any information or to make any representations other than those contained or incorporated by reference in this document, the accompanying prospectus supplement or the accompanying prospectus. We take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. This document, the accompanying prospectus supplement and the accompanying prospectus is an offer to sell only the notes offered hereby, but only under circumstances and in jurisdictions where it is lawful to do so. The information contained in this document, the accompanying prospectus supplement and the accompanying prospectus is current only as of the respective dates of such documents.

TABLE OF CONTENTS

<u>Summary Information</u>	S-4
<u>Hypothetical Examples</u>	S-7
<u>Additional Risk Factors Specific to Your Notes</u>	S-12
<u>Specific Terms of Your Notes</u>	S-25
<u>Use of Proceeds</u>	S-34
<u>Hedging</u>	S-34
<u>The Indices</u>	S-35
<u>Supplemental Discussion of Federal Income Tax Consequences</u>	S-57
<u>Employee Retirement Income Security Act</u>	S-62
<u>Supplemental Plan of Distribution</u>	S-63
<u>Conflicts of Interest</u>	S-65

Prospectus Supplement dated July 10, 2017

Use of Proceeds	S-2
Description of Notes We May Offer	S-3
Considerations Relating to Indexed Notes	S-15
United States Taxation	S-18
Employee Retirement Income Security Act	S-19
Supplemental Plan of Distribution	S-20
Validity of the Notes and Guarantees	S-21

Prospectus dated July 10, 2017

Available Information	2
Prospectus Summary	4
Risks Relating to Regulatory Resolution Strategies and Long-Term Debt Requirements	8
Use of Proceeds	11
Description of Debt Securities We May Offer	12
Description of Warrants We May Offer	45
Description of Units We May Offer	60
GS Finance Corp.	65
Legal Ownership and Book-Entry Issuance	67
Considerations Relating to Floating Rate Debt Securities	72
Considerations Relating to Indexed Securities	73
Considerations Relating to Securities Denominated or Payable in or Linked to a Non-U.S. Dollar Currency	74
United States Taxation	77
Plan of Distribution	92
Conflicts of Interest	94

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Employee Retirement Income Security Act	95
Validity of the Securities and Guarantees	95
Experts	96
Review of Unaudited Condensed Consolidated Financial Statements by Independent Registered Public Accounting Firm	96
Cautionary Statement Pursuant to the Private Securities Litigation Reform Act of 1995	96

Table of Contents

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GS Finance Corp.

Trigger Callable Contingent Yield Notes due
guaranteed by
The Goldman Sachs Group, Inc.

Goldman Sachs & Co. LLC

UBS Financial Services Inc.
Selling Agent
