Wynn H Edward Form 4 February 16, 2012

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

**SECURITIES** 

OMB

3235-0287 Number: January 31,

**OMB APPROVAL** 

Expires: 2005

0.5

burden hours per response...

Estimated average

if no longer subject to Section 16. Form 4 or Form 5

obligations

may continue.

See Instruction

Check this box

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person \* Wynn H Edward

2. Issuer Name and Ticker or Trading Symbol

5. Relationship of Reporting Person(s) to

Issuer

below)

(Last)

Security

(Instr. 3)

Execution Date, if

(Month/Day/Year)

(Middle)

STEPAN CO [SCL]

(Check all applicable)

(First)

(Street)

3. Date of Earliest Transaction (Month/Day/Year)

Director 10% Owner X\_ Officer (give title Other (specify

6. Individual or Joint/Group Filing(Check

02/14/2012

below) VP, Gen'l Counsel & Secretary

22 W. FRONTAGE ROAD

4. If Amendment, Date Original

Applicable Line)

Filed(Month/Day/Year)

(Instr. 8)

\_X\_ Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

NORTHFIELD, IL 60093

(City) (State) (Zip) 1. Title of 2. Transaction Date 2A. Deemed

(Month/Day/Year)

3. 4. Securities TransactionAcquired (A) or Code Disposed of (D)

5. Amount of Securities Beneficially Owned

6. Ownership 7. Nature of Form: Direct Indirect (D) or Indirect Beneficial Ownership (T) (Instr. 4)

(Instr. 4)

(A)

(Instr. 3, 4 and 5)

Following Reported Transaction(s)

(Instr. 3 and 4) Code V Amount (D) Price

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of 3. Transaction Date 3A. Deemed 4. 5. Number 6. Date Exercisable and 7. Title and Amount of Derivative Conversion (Month/Day/Year) Execution Date, if Transactionof **Expiration Date** Underlying Securities Security or Exercise Code Derivative (Month/Day/Year) (Instr. 3 and 4) any

(Instr. 3)	Price of Derivative Security		(Month/Day/Year)	(Instr. 8)	Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	,			
				Code V	(A) (D	) Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Appreciation Right	\$ 85.53	02/14/2012		A	746	02/14/2014	02/13/2022	Common Stock	746
Employee Stock Option (Right to Buy)	\$ 85.53	02/14/2012		A	746	02/14/2014	02/13/2022	Common Stock	746
Performance Shares	<u>(1)</u>	02/14/2012		A	807	<u>(1)</u>	<u>(1)</u>	Common Stock	807

# **Reporting Owners**

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Wynn H Edward 22 W. FRONTAGE ROAD NORTHFIELD, IL 60093

VP, Gen'l Counsel & Secretary

# **Signatures**

H. Edward
Wynn

\*\*Signature of Reporting Person

Date

# **Explanation of Responses:**

- \* If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- \*\* Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).
- (1) Each performance share represents a contingent right to receive 1 share of Stepan Company Common Stock. The performance shares vest upon Stepan Company achieving certain financial targets by December 31, 2014.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. rmining whether a market disruption event with respect to an Index (or the relevant successor index) has occurred:

• a limitation on the hours or number of days of trading will not constitute a market disruption event if it results from an announced change in the regular business hours of the relevant exchange, or the primary exchange or market for trading in futures or options contracts related to the Index (or the relevant successor index);

Reporting Owners 2

- · limitations pursuant to the rules of any relevant exchange similar to NYSE Rule 80B (or any applicable rule or regulation enacted or promulgated by any other self-regulatory organization or any government agency of scope similar to NYSE Rule 80B as determined by the calculation agent) on trading during significant market fluctuations will constitute a suspension, absence or material limitation of trading;
- a suspension of trading in futures or options contracts on the Index (or the relevant successor index) by the primary exchange or market trading in such contracts by reason of:
- · a price change exceeding limits set by such exchange or market,

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- · an imbalance of orders relating to such contracts, or
- · a disparity in bid and ask quotes relating to such contracts

will, in each such case, constitute a suspension, absence or material limitation of trading in futures or options contracts related to the Index (or the relevant successor index); and

• a "suspension, absence or material limitation of trading" on any relevant exchange or on the primary exchange or market on which futures or options contracts related to the Index (or the relevant successor index) are traded will not include any time when such exchange or market is itself closed for trading under ordinary circumstances.

"Relevant exchange" means, with respect to an Index or any relevant successor index, the primary exchange or market of trading for any security (or any combination thereof) then included in the Index or such successor index, as applicable.

With respect to each ETF, 1.0, subject to adjustment. If an ETF is subject to a stock split or reverse stock split, then once such split has become effective, the adjustment factor will be adjusted to equal the product of the prior adjustment factor and the number of shares issued in such stock split or reverse stock split with respect to one share of that ETF. No such adjustment to the adjustment factor will be required unless such adjustment would require a change of at least 0.1% in the amount being adjusted as then in effect. Any number so adjusted will be rounded to the nearest one hundred-thousandth with five one-millionths being rounded upward.

Adjustment factor:

Closing price of an ETF:

The closing price for one share of an ETF (or one unit of any other security for which a closing price must be determined with respect to this basket component) on any trading day means:

- · if the shares of that ETF (or any such other security) are listed or admitted to trading on a national securities exchange, the last reported sale price, regular way, of the principal trading session on such day on the principal U.S. securities exchange registered under the Exchange Act on which the shares of that ETF (or any such other security) are listed or admitted to trading, or
- · if the shares of that ETF (or any such other security) are not listed or admitted to trading on any national securities exchange but are included in the OTC Bulletin Board Service (the OTC Bulletin Board) operated by the Financial Industry Regulatory Authority (FINRA), the last reported sale price of the principal trading session on the OTC Bulletin Board on such day.

If the shares of an ETF (or any such other security) are listed or admitted to trading on any national securities exchange but the last reported sale price, as applicable, is not available pursuant to the preceding sentence, then the closing price for one share of that ETF (or one unit of any such other security) on any trading day will mean the last reported sale price of the principal trading session on the over-the-counter market or the OTC Bulletin Board on such day.

If the last reported sale price for an ETF (or any such other security) is not available pursuant to either of the two preceding sentences, then the closing price for any trading day will be the mean, as determined by the calculation agent, of the firm bid prices for that ETF (or any such other security) obtained from as many recognized dealers in such security, but not exceeding three, as will make such bid prices available to the calculation agent. Bids of the Issuer or any of its affiliates may be included

in the calculation of such mean, but only to the extent that any such bid is the highest of the bids obtained. The term "OTC Bulletin Board" will include any successor service thereto, or, if applicable, the OTC Reporting Facility operated by FINRA.

If, for any basket component (an "affected basket component"), (i) a market disruption event occurs on the valuation date or (ii) that day is determined by the calculation agent not to be a trading day by

Postponement reason of an extraordinary event, occurrence, declaration, or otherwise, the calculation agent will determine the official closing value of the basket component for the valuation date, and as a result, the valuation date: final basket value, as follows:

• The official closing value of each basket component that is not an affected basket component will be its official closing value on the valuation date.

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The official closing value of each basket component that is an affected basket component for the valuation date will be deemed to be the official closing value of the basket component on the immediately succeeding trading day during which no market disruption event shall have occurred or is continuing to occur; provided that the final basket value will be determined (or, if not determinable, estimated) by the calculation agent in a manner which the calculation agent considers commercially reasonable under the circumstances on a date no later than the fifth scheduled trading day after the scheduled valuation date, regardless of the occurrence of a market disruption event on that day.

Market With respect to an ETF, a market disruption event, as determined by the calculation agent in its sole disruption events discretion, means the occurrence or existence of any of the following events:

with respect to an a suspension, absence or material limitation of trading in the shares of that ETF on its

primary market for more than two hours of trading or during the one-half hour before the close of trading in that market;

- a suspension, absence or material limitation of trading in option or futures contracts relating to that ETF, if available, in the primary market for those contracts for more than two hours of trading or during the one-half hour before the close of trading in that market; or
- the shares of that ETF do not trade on the NYSE Arca, the Nasdaq Global Market or what was the primary market for the shares of that ETF, as determined by the calculation agent in its sole discretion;
- any other event, if the calculation agent determines that the event materially interferes with our ability or the ability of any of our affiliates or hedge counterparties to unwind all or a material portion of a hedge with respect to the PLUS that such party or its respective hedge counterparties have effected or may effect as described below under "Use of Proceeds and Hedging." The following events will not be market disruption events:
- a limitation on the hours or number of days of trading in the shares of that ETF on its primary market, but only if the limitation results from an announced change in the regular business hours of the relevant market; and
- $\cdot$  a decision to permanently discontinue trading in the option or futures contracts relating to the shares of that ETF.

For this purpose, a "suspension, absence or material limitation of trading" in the primary securities market on which option or futures contracts relating to the shares of an ETF, if available, 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 option or futures contracts relating to the shares of an ETF, if available, in the primary market for those contracts, by reason of any of:

- · a price change exceeding limits set by that market;
- an imbalance of orders relating to those contracts; or
- · a disparity in bid and asked quotes relating to those contacts;

Discontinuation the basket components:

will constitute a suspension or material limitation of trading in option or futures contracts, as the case may be, relating to the shares of that ETF in the primary market for those contracts. Indices. If an index sponsor discontinues publication of the relevant Index and an index sponsor or another entity publishes a successor or substitute index that the calculation agent determines, in its of/adjustments to sole discretion, to be comparable to the discontinued Index (such index being referred to herein as a "successor index"), then the closing level of the Index on the valuation date will be determined by reference to the level of such successor index at the close of trading on the relevant exchange for the successor index on such day.

Upon any selection by the calculation agent of a successor index, the calculation agent will cause written notice to be promptly furnished to the trustee, to us and to the holders of the

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If an index sponsor discontinues publication of the relevant Index prior to, and that discontinuation is continuing on the valuation date, and the calculation agent determines, in its sole discretion, that no successor index is available at that time or the calculation agent has previously selected a successor index and publication of that successor index is discontinued prior to, and that discontinuation is continuing on, the valuation date, then the calculation agent will determine the closing level of the Index for that date. The closing level of the Index will be computed by the calculation agent in accordance with the formula for and method of calculating the Index or successor index, as applicable, last in effect prior to the discontinuation, using the closing price (or, if trading in the relevant securities has been materially suspended or materially limited, the calculation agent's good faith estimate of the closing price that would have prevailed but for the suspension or limitation) at the close of the principal trading session on that date of each security most recently included in the Index or successor index, as applicable.

If at any time the method of calculating an Index or a successor index, or the level thereof, is changed in a material respect, or if an Index or a successor index is in any other way modified so that the Index or successor index does not, in the opinion of the calculation agent, fairly represent the level of the Index or successor index had those changes or modifications not been made, then the calculation agent will, at the close of business in New York City on the date on which the closing level of the Index is to be determined, make any calculations and adjustments as, in the good faith judgment of the calculation agent, may be necessary in order to arrive at a level of a stock index comparable to the Index or successor index, as the case may be, as if those changes or modifications had not been made, and calculate the closing level of the Index with reference to the Index or such successor index, as adjusted. Accordingly, if the method of calculating the Index or a successor index is modified so that the level of the Index or such successor index is a fraction of what it would have been if there had been no such modification (e.g., due to a split in the Index), then the calculation agent will adjust its calculation of the Index or such successor index in order to arrive at a level of the Index or such successor index as if there had been no such modification (e.g., as if such split had not occurred).

Notwithstanding these alternative arrangements, discontinuation the publication of or modification of any Index or successor index, as applicable, may adversely affect the value of the PLUS.

ETFs. If an ETF is discontinued and the sponsor or another entity establishes or designates a successor or substitute fund that the calculation agent determines, in its sole discretion, to be comparable to that ETF (the successor fund), then the calculation agent will substitute the successor fund for that ETF and determine the closing price of that ETF on the valuation date as described above under "—Closing price of an ETF."

If an ETF is discontinued and:

- · the calculation agent does not select a successor fund, or
- the successor fund is no longer traded or listed on any of the relevant trading days,

the calculation agent will compute a substitute price for that ETF in accordance with the procedures last used to calculate the price of that ETF before any discontinuation but using only those securities that were held by that ETF prior to such discontinuation. If a successor fund is selected or the calculation agent calculates a price as a substitute for that ETF as described below, the successor fund or price will be used as a substitute for that ETF for all purposes going forward, including for purposes of determining whether a market disruption event exists, even if that ETF is

re-established, unless the calculation agent in its sole discretion decides to use the re-established ETF. If an ETF is discontinued before the valuation date and the calculation agent determines that no successor fund is available at that time, then on each trading day until the earlier to occur of:

the determination of the final component value, or

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a determination by the calculation agent that a successor fund is available,

the calculation agent will determine the price that would be used in computing the closing price of that ETF as described in the preceding paragraph as if that day were a trading day. The calculation agent will cause notice of each price to be published not less often than once each month in The Wall Street Journal, another newspaper of general circulation or a website or webpage available to holders of the PLUS, and arrange for information with respect to these prices to be made available by telephone. Notwithstanding these alternative arrangements, discontinuation of the operation of an ETF would be expected to adversely affect the value of, liquidity of and trading in the PLUS.

A business day means a Monday, Tuesday, Wednesday, Thursday or Friday that is not a day on which Business day: banking institutions in New York City generally are authorized or obligated by law, regulation or executive order to close.

> With respect to an Index, the trading day means a day, as determined by the calculation agent, on which trading is generally conducted on (i) the relevant exchanges for securities comprising the Index or the successor index and (ii) the exchanges on which futures or options contracts related to the Index or the successor index are traded, other than a day on which trading on such relevant exchange or exchange on which such futures or options contracts are traded is scheduled to close prior to its regular weekday closing time.

> With respect to an ETF, a trading day means any day on which the exchange and each related exchange are scheduled to be open for their respective regular trading sessions.

The exchange means the primary organized exchange or quotation system for trading an ETF, any Trading day: successor to such exchange or quotation system or any substitute exchange or quotation system to which trading in such shares has temporarily relocated (provided that the calculation agent has determined that there is comparable liquidity relative to such shares on that temporary substitute exchange or quotation system as on the original exchange).

> A related exchange means each exchange or quotation system on which futures or options contracts relating to an ETF are traded, any successor to such exchange or quotation system or any substitute exchange or quotation system to which trading in the futures or options contracts relating to that ETF has temporarily relocated (provided that the calculation agent has determined that there is comparable liquidity relative to the futures or options contracts relating to that ETF on that temporary substitute exchange or quotation system as on the original related exchange).

In the event we fail to make a payment on the maturity date, any overdue payment in respect of such payment on the PLUS will bear interest until the date upon which all sums due are received by or on behalf of the relevant holder, at a rate per annum which is the rate for deposits in U.S. dollars for a interest upon period of three months which appears on the Reuters Screen LIBOR page as of 11:00 a.m. (London acceleration: time) on the first business day following such failure to pay. Such rate shall be determined by the calculation agent. If interest is required to be calculated for a period of less than one year, it will be calculated on the basis of a 360-day year consisting of the actual number of days in the period.

Default

Events of default and

If the maturity of the PLUS is accelerated upon an event of default under the Indenture, the amount payable upon acceleration will be determined by the calculation agent. Such amount will be calculated acceleration: as if the date of declaration of acceleration were the valuation date.

Minimum

ticketing

\$1,000 / 100 PLUS

size:

We will pay any amounts to be paid by us on the PLUS without deduction or withholding for, or on account of, any and all present or future income, stamp and other taxes, levies, imposts, duties, charges, fees, deductions or withholdings ("taxes") now or hereafter imposed, levied, collected, withheld or

Additional amounts:

assessed by or on behalf of Canada or any Canadian political subdivision or authority that has the power to tax, unless the deduction or withholding is required by law or by the interpretation or administration thereof by the relevant governmental authority. At any time a Canadian taxing jurisdiction requires us to

deduct or withhold for or on

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account of taxes from any payment made under or in respect of the PLUS, we will pay such additional amounts ("Additional Amounts") as may be necessary so that the net amounts received by each holder (including Additional Amounts), after such deduction or withholding, shall not be less than the amount the holder would have received had no such deduction or withholding been required.

However, no Additional Amounts will be payable with respect to a payment made to a holder of a PLUS or of a right to receive payments in respect thereto (a "Payment Recipient"), which we refer to as an "Excluded Holder," in respect of any taxes imposed because the beneficial owner or Payment Recipient:

- (i) is someone with whom we do not deal at arm's length (within the meaning of the Income Tax Act (Canada)) at the time of making such payment;
- (ii) is subject to such taxes by reason of its being connected presently or formerly with Canada or any province or territory thereof otherwise than by reason of the holder's activity in connection with purchasing the PLUS, the holding of the PLUS or the receipt of payments thereunder;
- (iii) is, or does not deal at arm's length with a person who is, a "specified shareholder" (within the meaning of subsection 18(5) of the Income Tax Act (Canada)) of Royal Bank of Canada (generally a person will be a "specified shareholder" for this purpose if that person, either alone or together with persons with whom the person does not deal at arm's length, owns 25% or more of (a) our voting shares, or (b) the fair market value of all of our issued and outstanding shares);
- (iv) presents such security for payment (where presentation is required) more than 30 days after the relevant date (except to the extent that the holder thereof would have been entitled to such Additional Amounts on presenting a security for payment on the last day of such 30 day period); for this purpose, the "relevant date" in relation to any payments on any security means:
- a. the due date for payment thereof, or
- b. if the full amount of the monies payable on such date has not been received by the trustee on or prior to such due date, the date on which the full amount of such monies has been received and notice to that effect is given to holders of the PLUS in accordance with the Indenture;
- (v) could lawfully avoid (but has not so avoided) such withholding or deduction by complying, or requiring that any agent comply with, any statutory requirements necessary to establish qualification for an exemption from withholding or by making, or requiring that any agent make, a declaration of non-residence or other similar claim for exemption to any relevant tax authority; or
- (vi) is subject to deduction or withholding on account of any tax, assessment, or other governmental charge that is imposed or withheld by reason of the application of Section 1471 through 1474 of the United States Internal Revenue Code of 1986, as amended (the "Code") (or any successor provisions), any regulation, pronouncement, or agreement thereunder, official interpretations thereof, or any law implementing an intergovernmental approach thereto, whether currently in effect or as published and amended from time to time.

For the avoidance of doubt, we will not have any obligation to pay any holders Additional Amounts on any tax which is payable otherwise than by deduction or withholding from payments made under or in respect of the PLUS at maturity.

We will also make such withholding or deduction and remit the full amount deducted or withheld to the relevant authority in accordance with applicable law. We will furnish to the trustee, within 30 days after the date the payment of any taxes is due pursuant to applicable law, certified copies of tax receipts evidencing that such payment has been made or other evidence of such payment satisfactory to the trustee. We will indemnify and hold harmless each holder of the PLUS (other than an Excluded Holder) and upon written request reimburse each such holder for the amount of (x) any taxes so levied or imposed and paid by such holder as a result of payments made under or with respect to the PLUS, and (y) any taxes levied or imposed and paid by such holder with respect to any reimbursement under (x) above, but

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excluding any such taxes on such holder's net income or capital.

For additional information, see the section entitled "Tax Consequences—Canadian Taxation" in the accompanying prospectus.

Form of the

Calculation

agent:

PLUS: Book-entry

Trustee: The Bank of New York Mellon

RBCCM. The calculation agent will make all determinations regarding the PLUS. 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. You will not be entitled to any compensation from us for any loss suffered as a result of any of the above determinations or confirmations by the calculation

agent.

MSWM clients may contact their local MSWM branch office or our principal executive offices at 1585 Broadway, New York, New York 10036 (telephone number 1-(866)-477-4776). All other clients may contact their local brokerage representative. Third-party distributors may contact Morgan Stanley Structured Investment Sales at 1-(800)-233-1087.

Validity of the PLUS:

Contact:

In the opinion of Norton Rose Fulbright Canada LLP, the issue and sale of the PLUS has been duly authorized by all necessary corporate action of the Bank in conformity with the Indenture, and when the PLUS have been duly executed, authenticated and issued in accordance with the Indenture and delivered against payment therefor, the PLUS will be validly issued and, to the extent validity of the PLUS is a matter governed by the laws of the Province of Ontario or Québec, or the laws of Canada applicable therein, and will be valid obligations of the Bank, subject to equitable remedies which may only be granted at the discretion of a court of competent authority, subject to applicable bankruptcy, to rights to indemnity and contribution under the PLUS or the Indenture which may be limited by applicable law; to insolvency and other laws of general application affecting creditors' rights, to limitations under applicable limitations statues, and to limitations as to the currency in which judgments in Canada may be rendered, as prescribed by the Currency Act (Canada). This opinion is given as of the date hereof and is limited to the laws of the Provinces of Ontario and Québec and the federal laws of Canada applicable thereto. In addition, this opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and certain factual matters, all as stated in the letter of such counsel dated January 8, 2016, which has been filed as Exhibit 5.1 to Royal Bank's Form 6-K filed with the SEC on January 11, 2016.

In the opinion of Morrison & Foerster LLP, when the PLUS have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the PLUS will be valid, binding and enforceable obligations of Royal Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability (including, without limitation, concepts of good faith, fair dealing and the lack of bad faith). This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion

is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and to such counsel's reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated January 8, 2016, which has been filed as Exhibit 5.2 to the Bank's Form 6-K dated January 11, 2016.

Terms in the

All of the terms in "Summary Terms" (except the item captioned "Commissions and issue price") and the terms above the item captioned "Contact" in "Additional Terms of the PLUS" of this pricing supplement, and the section "Supplemental Discussion of U.S. Federal Income Tax Consequences." In addition to incorporated those terms, the following two sentences are also so incorporated into the master note: RBC confirms that it fully understands and is able to calculate the effective annual rate of interest applicable to the master note: PLUS based on the methodology for calculating per annum rates provided for in the PLUS. RBC irrevocably agrees not to plead or assert Section 4 of the Interest Act (Canada), whether by way of defense or otherwise, in any proceeding relating to the PLUS.

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Information About the Basket Components

All disclosures contained in this document regarding the basket components, including, without limitation, their make-up, method of calculation, and changes in their components, have been derived from publicly available sources. The information reflects the policies of, and is subject to change by, the applicable index sponsor or investment advisor. Each of these entities has no obligation to continue to publish, and may discontinue publication of, the applicable basket component. The consequences of an index sponsor or an investment advisor discontinuing publication or making other changes to a basket component are discussed above in the section entitled "Discontinuation of/adjustments to the basket components" or "adjustment factor," as applicable. Neither we nor RBCCM accepts any responsibility for the calculation, maintenance or publication of any basket component or any successor index or successor to any ETF.

Information provided to or filed with the SEC by each ETF, including its most recent prospectus and its periodic reports, can be inspected and copied at the public reference facilities maintained by the SEC or through the SEC's website at www.sec.gov. We are not incorporating by reference into this document any of those documents. The selection of the basket components is not a recommendation to invest in any basket component. Neither we nor any of our affiliates make any representation to you as to the future performance of any basket component. The Russell 3000® Value Index

The RAV was developed by Russell Investments ("Russell") before FTSE International Limited and Russell combined in 2015 to create FTSE Russell, which is wholly owned by London Stock Exchange Group. The RAV is a subset of the Russell 3000® Index (the "RUA"). The RUA measures the performance of the largest 3,000 U.S. companies, representing approximately 98% of the investable U.S. equity market. The RAV consists of the securities included in the RUA that are deemed to exhibit "value" characteristics. The RAV is determined, comprised, and calculated by FTSE Russell without regard to the PLUS.

Selection of Value Stocks

FTSE Russell uses a "non-linear probability" method to assign stocks to its growth and value style indexes. The term "probability" is used to indicate the degree of certainty that a stock is "value" or "growth" based on its relative book-to-price (B/P) ratio, I/B/E/S forecast medium-term growth (two years) and sales per share historical growth (five year). This method allows stocks to be represented as having both growth and value characteristics, while preserving the additive nature of the indexes.

The process for assigning growth and value weights is applied separately to the stocks in the RUA. The stocks in the RUA are ranked by their adjusted book-to-price ratio (B/P), their I/B/E/S forecast medium-term growth (two years) and sales per share historical growth (five years). These rankings are converted to standardized units and combined to produce a Composite Value Score ("CVS"). Stocks are then ranked by their CVS, and a probability algorithm is applied to the CVS distribution to assign growth and value weights to each stock. In general, stocks with a lower CVS are considered growth, stocks with a higher CVS are considered value, and stocks with a CVS in the middle range are considered to have both growth and value characteristics, and are weighted proportionately in the growth and value index. Stocks are always fully represented by the combination of their growth and value weights, e.g., a stock that is given a 20% weight in a Russell value index will have an 80% weight in the same Russell growth index.

Stock A, in the figure below, is a security with 20% of its available shares assigned to the value index and the remaining 80% assigned to the growth index. The growth and value probabilities will always sum to 100%. Hence, the sum of a stock's market capitalization in the growth and value index will always equal its market capitalization in the RUA.

In the figure above, the quartile breaks are calculated such that approximately 25% of the available market capitalization lies in each quartile. Stocks at the median are divided 50% in each style index. Stocks below the first quartile are 100% in the growth index. Stocks above the third quartile are 100% in the value index. Stocks falling between the first and third quartile breaks are in both indices to varying degrees depending on how far they are above or below the median and how close they are to the first or third quartile breaks. Roughly 70% of the available market capitalization is classified as all growth or all value. The remaining 30% have some portion of their market value in either the value or growth index, depending on their relative distance from the median value score. Note that there is a small position cutoff rule. If a stock's weight is more than 95% in one style index, its weight is increased to 100% in the index. This rule eliminates many small weightings and makes passive management easier.

Selection of Stocks Underlying the RUA

All companies eligible for inclusion in the RUA must be classified as a U.S. company under the index sponsor's country-assignment methodology. If a company is incorporated, has a stated headquarters location, and trades in the same country (American Depositary Receipts and American Depositary Shares are not eligible), then the company is assigned to its country of incorporation. If any of the three factors are not the same, the index sponsor defines three Home Country Indicators ("HCIs"): country of incorporation, country of headquarters, and country of the most liquid exchange (as defined by a two-year average daily dollar trading volume) ("ADDTV") from all exchanges within a country. Using the HCIs, the index sponsor compares the primary location of the company's assets with the three HCIs. If the primary location of its assets matches any of the HCIs, then the

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company is assigned to the primary location of its assets. If there is insufficient information to determine the country in which the company's assets are primarily located, the index sponsor will use the primary country from which the company's revenues are primarily derived for the comparison with the three HCIs in a similar manner. The index sponsor uses the average of two years of assets or revenues data to reduce potential turnover. If conclusive country details cannot be derived from assets or revenues data, the index sponsor will assign the company to the country of its headquarters, which is defined as the address of the company's principal executive offices, unless that country is a Benefit Driven Incorporation "BDI" country, in which case the company will be assigned to the country of its most liquid stock exchange. BDI countries include: Anguilla, Antigua and Barbuda, Aruba, Bahamas, Barbados, Belize, Bermuda, Bonaire, British Virgin Islands, Cayman Islands, Channel Islands, Cook Islands, Curacao, Faroe Islands, Gibraltar, Guernsey, Isle of Man, Jersey, Liberia, Marshall Islands, Panama, Saba, Sint Eustatius, Sint Maarten, and Turks and Caicos Islands. For any companies incorporated or headquartered in a U.S. territory, including countries such as Puerto Rico, Guam, and U.S. Virgin Islands, a U.S. HCI is assigned.

All securities eligible for inclusion in the RUA must trade on a major U.S. exchange. Stocks must have a closing price at or above \$1.00 on their primary exchange on the rank day in May to be eligible for inclusion during annual reconstitution. However, in order to reduce unnecessary turnover, if an existing member's closing price is less than \$1.00 on the last day of May, it will be considered eligible if the average of the daily closing prices (from its primary exchange) during the month of May is equal to or greater than \$1.00. Initial public offerings are added each quarter and must have a closing price at or above \$1.00 on the last day of their eligibility period in order to qualify for index inclusion. If an existing stock does not trade on the "rank day" (typically the last trading day in May, but a confirmed timetable is announced each Spring) but does have a closing price at or above \$1.00 on another eligible U.S. exchange, that stock will be eligible for inclusion.

An important criterion used to determine the list of securities eligible for the RUA is total market capitalization, which is defined as the market price as of the rank day in May for those securities being considered at annual reconstitution times the total number of shares outstanding. Where applicable, common stock, non-restricted exchangeable shares and partnership units/membership interests are used to determine market capitalization. Any other form of shares such as preferred stock, convertible preferred stock, redeemable shares, participating preferred stock, warrants, rights, installment receipts or trust receipts, are excluded from the calculation. If multiple share classes of common stock exist, they are combined to determine total shares outstanding. In cases where the common stock share classes act independently of each other (e.g., tracking stocks), each class is considered for inclusion separately. If multiple share classes exist, the pricing vehicle will be designated as the share class with the highest two-year trading volume as of the rank day in May.

Companies with a total market capitalization of less than \$30 million are not eligible for the RUA. Similarly, companies with only 5% or less of their shares available in the marketplace are not eligible for the RUA. Royalty trusts, 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 are also ineligible for inclusion. Exchange traded funds and mutual funds are also excluded. Bulletin board, pink sheets, and over-the-counter ("OTC") traded securities are not eligible for inclusion.

Annual reconstitution is a process by which the RUA is completely rebuilt. Based on closing levels of the company's common stock on its primary exchange on the rank day of May of each year, FTSE Russell reconstitutes the composition of the RUA using the then existing market capitalizations of eligible companies. Reconstitution of the RUA occurs on the last Friday in June or, when the last Friday in June is the 29th or 30th, reconstitution occurs on the prior Friday. In addition, the index sponsor adds initial public offerings to the RUA on a quarterly basis based on total market capitalization ranking within the market-adjusted capitalization breaks established during the most recent reconstitution.

After membership is determined, a security's shares are adjusted to include only those shares available to the public. This is often referred to as "free float." The purpose of the adjustment is to exclude from market calculations the capitalization that is not available for purchase and is not part of the investable opportunity set. License Agreement

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The PLUS are not sponsored, endorsed, sold or promoted by FTSE Russell. FTSE Russell makes no representation or warranty, express or implied, to the owners of the PLUS or any member of the public regarding the advisability of investing in securities generally or in the PLUS particularly or the ability of the RAV to track general stock market performance or a segment of the same. FTSE Russell's publication of the RAV in no way suggests or implies an opinion by FTSE Russell as to the advisability of investment in any or all of the stocks upon which the RAV is based. FTSE Russell's only relationship to Royal Bank of Canada is the licensing of certain trademarks and trade names of FTSE Russell and of the RAV, which is determined, composed and calculated by FTSE Russell without regard to Royal Bank of Canada or the PLUS. FTSE Russell is not responsible for and has not reviewed the PLUS nor any associated literature or publications and FTSE Russell makes no representation or warranty express or implied as to their accuracy or completeness, or otherwise. FTSE Russell reserves the right, at any time and without notice, to alter, amend, terminate or in any way change the RAV. FTSE Russell has no obligation or liability in connection with the administration, marketing or trading of the PLUS.

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The EURO STOXX 50® Index

The SX5E was created by STOXX Limited and SIX Swiss Exchange AG. Publication of the SX5E began in February 1998, based on an initial level of 1,000 at December 31, 1991.

**Index Composition and Maintenance** 

For each of the 19 EURO STOXX regional supersector indices, the stocks are ranked in terms of 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 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 current stocks in the SX5E are then added to the selection list. All of the stocks on the selection list are then ranked in terms of free-float market capitalization to produce the final index selection list. The largest 40 stocks on the selection list are selected; the remaining 10 stocks are selected from the largest remaining current stocks ranked between 41 and 60; if the number of stocks selected is still below 50, then the largest remaining stocks are selected until there are 50 stocks. In exceptional cases, STOXX's management board can add stocks to and remove them from the selection list.

The index components are subject to a capped maximum index weight of 10%, which is applied on a quarterly basis. The SX5E is composed of 50 component stocks of market sector leaders from within the 19 EURO STOXX® Supersector indices, which represent the Eurozone portion of the STOXX Europe 600® Supersector indices. The composition of the SX5E is reviewed annually, based on the closing stock data on the last trading day in August. Changes in the composition of the SX5E are made to ensure that the SX5E includes the 50 market sector leaders from within the SX5E.

The free float factors for each component stock used to calculate the SX5E, as described below, are reviewed, calculated, and implemented on a quarterly basis and are fixed until the next quarterly review.

The SX5E is subject to a "fast exit rule." The SX5E components are monitored for any changes based on the monthly selection list ranking, i.e., on an ongoing monthly basis. A stock is deleted from the SX5E if: (a) it ranks 75 or below on the monthly selection list and (b) it ranked 75 or below on the selection list of the previous month. The highest-ranked stock that is not an index component will replace it. Changes will be implemented on the close of the fifth trading day of the month, and are effective the next trading day.

The SX5E 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 (a) it qualifies for the latest STOXX blue-chip selection list generated at the end of February, May, August or November and (b) it ranks within the "lower buffer" (ranks 1-25) on this selection list.

The SX5E is also reviewed on an ongoing basis. Corporate actions (including initial public offerings, mergers and takeovers, spin-offs, delistings, and bankruptcies) that affect the SX5E composition are immediately reviewed. Any changes are announced, implemented, and effective in line with the type of corporate action and the magnitude of the effect. Changes to the component stocks are implemented on the third Friday in September and are effective the following trading day.

Calculation of the SX5E

The SX5E is calculated with the "Laspeyres formula," which measures the aggregate price changes in the component stocks against a fixed base quantity weight. The formula for calculating the SX5E value can be expressed as follows:

 $SX5E = \frac{Free float market capitalization of the SX5E}{Divisor of the SX5E}$  x 1,000

The "free float market capitalization of the SX5E" is equal to the sum of the products of the closing price, number of shares outstanding, free float factor and weighting cap factor for each component stock as of the time the SX5E is being calculated.

The SX5E is also subject to a divisor, which is adjusted to maintain the continuity of the SX5E values across changes due to corporate actions, such as the deletion and addition of stocks, the substitution of stocks, stock dividends, and stock splits.

#### License Agreement

We have entered into a non-exclusive license agreement with STOXX providing for the license to us and certain of our affiliated or subsidiary companies, in exchange for a fee, of the right to use indices owned and published by STOXX (including the SX5E and the SX7E) in connection with certain securities, including the PLUS. The license agreement between us and STOXX requires that the following language be stated in this document: STOXX has no relationship to us, other than the licensing of the SX5E and the SX7E and the related trademarks for use in connection with the PLUS. STOXX does not:

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- ·sponsor, endorse, sell, or promote the PLUS;
- ·recommend that any person invest in the PLUS or any other securities;
- ·have any responsibility or liability for or make any decisions about the timing, amount, or pricing of the PLUS;
- ·have any responsibility or liability for the administration, management, or marketing of the PLUS; or consider the needs of the PLUS or the holders of the PLUS in determining, composing, or calculating the SX5E or the SX7E, or have any obligation to do so.

STOXX will not have any liability in connection with the PLUS. Specifically:

- ·STOXX does not make any warranty, express or implied, and disclaims any and all warranty concerning: the results to be obtained by the PLUS, the holders of the PLUS or any other person in connection with the use of the SX5E, the SX7E or the data included in these Indices;
- ·the accuracy or completeness of the SX5E, the SX7E and their data;
- •the merchantability and the fitness for a particular purpose or use of the SX5E, the SX7E and their data;
- ·STOXX will have no liability for any errors, omissions, or interruptions in the SX5E, the SX7E or their data; and under no circumstances will STOXX be liable for any lost profits or indirect, punitive, special, or consequential damages or losses, even if STOXX knows that they might occur.

The licensing agreement between us and STOXX is solely for their benefit and our benefit, and not for the benefit of the holders of the PLUS or any other third parties.

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The EURO STOXX® Banks Index

The SX7E was created by STOXX Limited, which is owned by Deutsche Börse AG. Publication of the Index began on June 15, 1998, based on an initial index value of 100 at December 31, 1991. The SX7E is reported daily on the Bloomberg Professional® service under the symbol "SX7E" and on the STOXX Limited website.

Index Composition and Maintenance

The SX7E is one of the 19 EURO STOXX® Supersector indices that compose the STOXX® Europe 600 Index. The STOXX® Europe 600 Index contains the 600 largest stocks traded on the major exchanges of 18 European countries and are organized into the following 19 Supersectors: automobiles & parts; banks; basic resources; chemicals; construction & materials; financial services; food & beverage; health care; industrial goods & services; insurance; media; oil & gas; personal & household goods; real estate; retail; technology; telecommunications; travel & leisure; and utilities. The SX7E includes companies in the banks supersector, which tracks companies providing a broad range of financial services, including retail banking, loans and money transmissions. The SX7E currently includes 27 stocks. The SX7E is weighted by free float market capitalization. Each component's weight is capped at 30% of the SX7E's total free float market capitalization. Free float weights are reviewed quarterly. The composition of each of the EURO STOXX® Supersector index is reviewed quarterly, based on the closing stock data on the last trading day of the month following the implementation of the last quarterly index review, and changes to the component stocks are implemented quarterly. Index components are also adjusted for corporate actions.

Calculation of the SX7E

For a description of the calculation of the index, please see the subjection above, "—The EURO STOXX®50 Index—Calculation of the SX5E." Please see the STOXX website for additional information about this index. None of the information on that website is included or incorporated by reference in this document.

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We have entered into a non-exclusive license agreement with STOXX providing for the license to us and certain of our affiliated or subsidiary companies, in exchange for a fee, of the right to use indices owned and published by STOXX (including the SX7E) in connection with certain securities, including the Securities offered hereby. See the subsection above, "—The EURO STOXX®SONdex—License Agreement."

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The VanEck Vectors® Gold Miners ETF

The NYSE Arca Gold Miners Index is a modified market capitalization weighted index comprised of securities issued by publicly traded companies involved primarily in the mining of gold or silver. The underlying index was developed by the NYSE Amex and is calculated, maintained and published by NYSE Arca.

Eligibility Criteria for Index Components

The underlying index includes common stocks, ADRs or GDRs of selected companies that are involved in mining for gold and silver and that are listed for trading and electronically quoted on a major stock market that is accessible by foreign investors. Generally, this includes exchanges in most developed markets and major emerging markets, and includes companies that are cross-listed, i.e., both U.S. and Canadian listings. NYSE Arca will use its discretion to avoid exchanges and markets that are considered "frontier" in nature or have major restrictions to foreign ownership. The underlying index includes companies that derive at least 50% of their revenues from gold mining and related activities (40% for companies that are already included in the underlying index). Also, the underlying index will maintain an exposure to companies with a significant revenue exposure to silver mining in addition to gold mining, which will not exceed 20% of the underlying index weight at each rebalance.

Currently, only companies with a market capitalization of greater than \$750 million that have an average daily trading volume of at least 50,000 shares and an average daily value traded of at least \$1 million over the past three months are eligible for inclusion in the underlying index. Starting in December 2013, for companies already included in the underlying index, the market capitalization requirement at each rebalance will be \$450 million, the average daily volume requirement will be at least 30,000 shares over the past three months and the average daily value traded requirement will be at least \$600,000 over the past three months.

NYSE Arca has the discretion to not include all companies that meet the minimum criteria for inclusion.

Calculation of the Underlying Index

The underlying index is calculated by NYSE Arca on a price return basis. The calculation is based on the current modified market capitalization divided by a divisor. The divisor was determined on the initial capitalization base of the underlying index and the base level and may be adjusted as a result of corporate actions and composition changes, as described below. The level of the underlying index was set at 500.00 on December 20, 2002 which is the index base date. The underlying index is calculated using the following formula:

Where:

t = day of calculation;

N = number of constituent equities in the underlying index;

Qi,t = number of shares of equity i on day t;

Mi,t = multiplier of equity i;

Ci,t = price of equity i on day t; and

DIV = current index divisor on day t.

Underlying Index Maintenance

The underlying index is reviewed quarterly to ensure that at least 90% of the underlying index weight is accounted for by index components that continue to meet the initial eligibility requirements. NYSE Arca may at any time and from time to time change the number of securities comprising the group by adding or deleting one or more securities, or

replacing one or more securities contained in the group with one or more substitute securities of its choice, if in NYSE Arca's discretion such addition, deletion or substitution is necessary or appropriate to maintain the quality and/or character of the underlying index. Components will be removed from the underlying index during the quarterly review if either (1) the market capitalization falls below \$450 million or (2) the traded average daily shares for the previous three months is less than 30,000 shares and the average daily traded value for the previous three months is less than \$600,000.

At the time of the quarterly rebalance, the component security weights (also referred to as the multiplier or share quantities of each component security) will be modified to conform to the following asset diversification requirements:

- the weight of any single component security may not account for more than 20% of the total value of the underlying index;
- the component securities are split into two subgroups—large and small, which are ranked by market capitalization (2) weight in the underlying index. Large securities are defined as having a starting index weight greater than or equal to 5%. Small securities are defined as having a starting index weight below 5%; and

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(3) the final aggregate weight of those component securities which individually represent more than 4.5% of the total value of the underlying index may not account for more than 45% of the total index value.

The weights of the components securities (taking into account expected component changes and share adjustments) are modified in accordance with the underlying index's diversification rules.

Diversification Rule 1: If any component stock exceeds 20% of the total value of the underlying index, then all stocks greater than 20% of the underlying index are reduced to represent 20% of the value of the underlying index. The aggregate amount by which all component stocks are reduced is redistributed proportionately across the remaining stocks that represent less than 20% of the index value. After this redistribution, if any other stock then exceeds 20%, the stock is set to 20% of the index value and the redistribution is repeated.

Diversification Rule 2: The components are sorted into two groups, large are components with a starting index weight of 5% or greater and small are components with a weight of under 5% (after any adjustments for Diversification Rule 1). The large group will represent in the aggregate 45% and the small group will represent 55% in the aggregate of the final index weight. This will be adjusted through the following process: The weight of each of the large stocks will be scaled down proportionately (with a floor of 5%) so that the aggregate weight of the large components will be reduced to represent 45% of the underlying index. If any large component stock falls below a weight equal to the product of 5% and the proportion by which the stocks were scaled down following this distribution, then the weight of each of the small components will be scaled up proportionately from the redistribution of the large components. If any small component stock exceeds a weight equal to the product of 4.5% and the proportion by which the stocks were scaled down following this distribution, then the weight of the stock is set equal to 4.5%. The redistribution of weight to the remaining stocks is repeated until the entire amount has been redistributed.

Changes to the underlying index composition and/or the component security weights in the underlying index are determined and announced prior to taking effect. These changes typically become effective after the close of trading on the third Friday of each calendar quarter month in connection with the quarterly index rebalance. The share quantities of each component security in the index portfolio remains fixed between quarterly reviews except in the event of certain types of corporate actions such as stock splits, reverse stock splits, stock dividends, or similar events. The share quantities used in the underlying index calculation are not typically adjusted for shares issued or repurchased between quarterly reviews. However, in the event of a merger between two components, the share quantities of the surviving entity may be adjusted to account for any stock issued in the acquisition. NYSE Arca may substitute securities or change the number of securities included in the underlying index, based on changing conditions in the industry or in the event of certain types of corporate actions, including mergers, acquisitions, spin-offs, and reorganizations. In the event of component or share quantity changes to the index portfolio, the payment of dividends other than ordinary cash dividends, spin-offs, rights offerings, re-capitalization, or other corporate actions affecting a component security of the underlying index, the index divisor may be adjusted to ensure that there are no changes to the index level as a result of nonmarket forces.

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The Consumer Staples Select Sector SPDR® ETF

The XLP seeks to provide investment results that correspond generally to the price and yield performance, before fees and expenses, of the Consumer Staples Select Sector Index. The Consumer Staples Select Sector Index measures the performance of the consumer staples sector of the U.S. equity market. The XLP is composed of companies whose primary line of business is directly associated with the consumer staples sector. The XLP trades on the NYSE Arca under the ticker symbol "XLP."

The Consumer Staples Select Sector Index

The XLP is a modified market capitalization-based index. The index is intended to track the movements of companies that are components of the S&P 500<sup>®</sup> Index and are involved in the development and production of consumer products that cover food and drug retailing, beverages, food products, tobacco, household products and personal products.

The XLP is one of the Select Sector Indices. The Select Sector Indices are sub-indices of the S&P 500® Index. Each stock in the S&P 500® Index is allocated to at least one Select Sector Index, and the combined companies of the ten Select Sector Indices represent all of the companies in the S&P 500® Index. The industry indices are sub-categories within each Select Sector Index and represent a specific industry segment of the overall Select Sector Index. The ten Select Sector Indices seek to represent the eleven S&P 500® Index sectors.

Each Select Sector Index was developed and is maintained in accordance with the following criteria:

Each of the component stocks in a Select Sector Index (the "Component Stocks") is a constituent company of the S&P 500® Index.

The ten Select Sector Indices together will include all of the companies represented in the S&P 500<sup>®</sup> Index and each of the stocks in the S&P 500<sup>®</sup> Index will be allocated to at least one of the Select Sector Indices.

The Index Compilation Agent assigns each constituent stock of the S&P 500<sup>®</sup> Index to a Select Sector Index. The

- ·Index Compilation Agent assigns a company's stock to a particular Select Sector Index based on S&P Dow Jones Indices' sector classification methodology as set forth in its Global Industry Classification Standard.
- Each Select Sector Index is calculated by S&P Dow Jones Indices using a modified "market capitalization"
- ·methodology. This design ensures that each of the component stocks within a Select Sector Index is represented in a proportion consistent with its percentage with respect to the total market capitalization of that Select Sector Index. For reweighting purposes, each Select Sector Index is rebalanced quarterly after the close of business on the second to last calculation day of March, June, September and December using the following procedures: (1) The rebalancing reference date is two business days prior to the last calculation day of each quarter; (2) With prices reflected on the rebalancing reference date, and membership, shares outstanding, additional weight factor (capping factor) and
- ·rebalancing reference date, and membership, shares outstanding, additional weight factor (capping factor) and investable weight factors (as described in the section "Computation of the S&P 500 Inde®" below) as of the rebalancing effective date, each company is weighted using the modified market capitalization methodology. Modifications are made as defined below.
- (i) The indices are first evaluated to ensure none of the indices breach the maximum allowable limits defined in rules (ii) and (v) below. If any of the allowable limits are breached, the component stocks are reweighted based on their float-adjusted market capitalization weights.

- (ii) If any component stock has a weight greater than 24%, that component stock has its float-adjusted market capitalization weight capped at 23%. The 23% weight cap creates a 2% buffer to ensure that no component stock exceeds 25% as of the quarter-end diversification requirement date.
- (iii) All excess weight is equally redistributed to all uncapped component stocks within the relevant Select Sector Index.
- (iv) After this redistribution, if the float-adjusted market capitalization weight of any other component stock(s) then breaches 23%, the process is repeated iteratively until no component stock s breaches the 23% weight cap.
- (v) The sum of the component stocks with weight greater than 4.8% cannot exceed 50% of the total index weight. These caps are set to allow for a buffer below the 5% limit.
- (vi) If the rule in step (v) is breached, all the component stocks are ranked in descending order of their float-adjusted market capitalization weights and the first component stock that causes the 50% limit to be breached has its weight reduced to 4.6%.
- (vii) This excess weight is equally redistributed to all component stocks with weights below 4.6%. This process is repeated iteratively until step (v) is satisfied.

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(viii) Index share amounts are assigned to each component stock to arrive at the weights calculated above. Since index shares are assigned based on prices one business day prior to rebalancing, the actual weight of each component stock at the rebalancing differs somewhat from these weights due to market movements.

(ix) If necessary, the reweighting process may take place more than once prior to the close on the last business day of March, June, September or December to ensure conformity with all diversification requirements.

Each Select Sector Index is calculated using the same methodology utilized by S&P Dow Jones Indices in calculating the S&P 500<sup>®</sup> Index, using a base-weighted aggregate methodology. The daily calculation of each Select Sector Index is computed by dividing the total market value of the companies in the Select Sector Index by a number called the index divisor.

The Index Compilation Agent at any time may determine that a Component Stock which has been assigned to one Select Sector Index has undergone such a transformation in the composition of its business, and should be removed from that Select Sector Index and assigned to a different Select Sector Index. In the event that the Index Compilation Agent notifies S&P Dow Jones Indices that a Component Stock's Select Sector Index assignment should be changed, S&P Dow Jones Indices will disseminate notice of the change following its standard procedure for announcing index changes and will implement the change in the affected Select Sector Indices on a date no less than one week after the initial dissemination of information on the sector change to the maximum extent practicable. It is not anticipated that Component Stocks will change sectors frequently.

Component Stocks removed from and added to the S&P 500<sup>®</sup> Index will be deleted from and added to the appropriate Select Sector Index on the same schedule used by S&P Dow Jones Indices for additions and deletions from the S&P 500<sup>®</sup> Index insofar as practicable.

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The iShares U.S. Telecommunications ETF

The shares of the IYZ are issued by iShares, Inc., a registered investment company. The IYZ seeks investment results that correspond generally to the price and yield performance, before fees and expenses, of the Dow Jones U.S. Select Telecommunications Index. The IYZ trades on the NYSE Arca under the ticker symbol "IYZ." BlackRock Fund Advisors serves as its investment advisor. The IYZ utilizes a "passive" or "indexing" investment approach in attempting to track the performance of its underlying index. The IYZ generally invests at least 90% of its assets in securities of its underlying index and in depositary receipts representing those securities.

**Investment Objective and Strategy** 

The IYZ seeks to provide investment results that correspond generally to the price and yield performance, before fees and expenses, of its underlying index. The IYZ's investment objective and its underlying index may be changed. Notwithstanding the IYZ's investment objective, the return on the PLUS will not reflect any dividends paid on the IYZ's shares, on the securities purchased by the IYZ or on the securities that comprise its underlying index. Although the IYZ seeks results that correspond generally to the performance of its underlying index, the IYZ follows a strategy of "representative sampling," which means the IYZ's holdings do not identically correspond to the holdings and weightings of the index, and may significantly diverge from the index. Although the IYZ generally invests at least 90% of its assets in some of the same securities as those contained in the index and in depositary receipts representing the same securities as those contained in the index and in depositary receipts representing the remainder in securities that are not contained in the index, or in other types of investments. Additionally, when the IYZ purchases securities not included in the index, the IYZ may be exposed to additional risks, such as counterparty credit risk or liquidity risk, to which the index components are not exposed. Therefore, the IYZ will not directly track the performance of the index and there may be significant variation between the performance of the IYZ and the index.

### The Underlying Index

The Dow Jones U.S. Select Telecommunications Index is designed to measure the performance of U.S. companies in the telecommunications sector. The index measures the performance of providers of fixed-line and mobile telephone services, as well as makers and distributors of high-technology communications products. Fixed-line includes regional and long-distance carriers. Mobile includes cellular, satellite and paging services. Communications products includes satellites, mobile telephones, fiber optics, switching devices, local and wide-area networks, teleconferencing equipment and connectivity devices for computers.

The index is derived from the common stocks of companies in the Dow Jones U.S. Broad Stock Market Index that are categorized into the telecommunications sector, based on a proprietary classification system used by S&P Dow Jones Indices. Limited Partnerships are not eligible for index membership.

#### Constituent Selection

Market Capitalization. On the last business day of the month prior to the quarterly rebalancing, a non-constituent company must have float-adjusted market capitalization of at least \$500 million to enter the index. If a company is already an index constituent, its float-adjusted market capitalization must be at least \$250 million to remain in the index.

Number of Constituents. At each quarterly rebalancing, if the component count is less than 22 after applying the rules set forth in the eligibility criteria, the market capitalization requirement is relaxed so that the next largest non-component in the eligible universe is added until the component count reaches 22.

Ownership Restrictions. At the discretion of S&P Dow Jones Indices, constituents with shareholder ownership restrictions defined in company bylaws may be deemed ineligible for inclusion in the index. Ownership restrictions preventing entities from replicating the index weight of a company may be excluded from the eligible universe or removed from the index. S&P Dow Jones Indices will provide up to five days advance notification of a deletion between rebalancings due to ownership restrictions.

#### Constituent Weighting

The index is weighted by float-adjusted market capitalization, subject to the following adjustments, which are made as part of the quarterly rebalancings in March, June, September, and December.

- •the weight of any individual company is capped at 25%.
- •the aggregate weight of individual companies with weights of 5% or more is capped at 45%.
- $\cdot the$  aggregate weight of the five largest companies in the index is capped at 65%.

**Index Maintenance** 

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Rebalancing. The index is rebalanced quarterly, effective at the open of trading on the Monday following the third Friday of March, June, September and December. Component eligibility is determined as of the last trading day of the month prior to rebalancing. As part of the rebalancing process, index composition, shares and weight caps are adjusted, if necessary.

Deletions. Between rebalancings, a company can be deleted from an index due to corporate events such as mergers, acquisitions, takeovers, delistings or bankruptcies. Deleted constituents are not replaced between rebalancings. If, during the course of the regular review of company classifications, a constituent's sector classification changes to an ineligible sector, it is removed from the relevant index at the next rebalancing. If a constituent's sector classification changes due to a corporate action such as a merger or spin-off, it is evaluated and may be removed from the relevant index at that time.

#### Additional Information

For additional information about the underlying index and its calculation, reference is made to the index provider's website: https://us.spindices.com/indices/equity/dow-jones-us-select-telecommunications-index-usd. However, information included in that website is not included or incorporated by reference in this document.

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**Historical Information** 

While actual historical information on the basket did not exist before the pricing date, the first graph below sets forth the hypothetical historical daily performance of the basket from January 1, 2013 through June 29, 2018. The graph is based upon actual daily official closing values of the basket components, hypothetical component weightings as described in "Summary Terms—Basket" on the cover page, and a hypothetical basket value of 100 as of January 1, 2013. The other graphs below set forth the daily official closing values of the basket components for the period from January 1, 2013 through June 29, 2018. The tables below each graph set forth the published high and low official closing values, as well as the end-of-quarter official closing values, of the basket components for each quarter in the same period.

We obtained the information below from Bloomberg Financial Markets, without independent verification. You should not take the historical values of the basket or the basket components as an indication of future performance, and no assurance can be given as to the value of any of the basket or the basket components on the valuation date.

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The Russell 3000® Value Index

Information as of market close on June 29, 2018:

Bloomberg Index Symbol: RAV 52 Weeks Ago: 1,504.244

Current Level: 1,576.459 52 Week High (on 1/26/2018): 1,705.573

Period End

52 Week Low (on 8/18/2017): 1,478.783

The Russell 3000® Value Index – Historical Closing Levels

High

Low

January 1, 2013 to June 29, 2018

2013	
First Quarter	1,058.19970.64 1,058.19
Second Quarter	1,120.991,034.461,085.13
Third Quarter	1,156.631,089.421,124.39
Fourth Quarter	1,229.051,109.181,229.05
2014	
First Quarter	1,257.821,156.511,257.82
Second Quarter	1,316.851,221.571,311.89
Third Quarter	1,330.941,268.531,292.84
Fourth Quarter	1,373.291,224.981,353.65
2015	
First Quarter	1,367.281,297.851,338.79
Second Quarter	1,372.321,328.991,331.06
Third Quarter	1,355.481,180.811,209.08
Fourth Quarter	1,320.601,208.821,266.26
2016	
First Quarter	1,280.371,125.861,278.28
Second Quarter	1,340.251,258.241,328.22
Third Quarter	1,386.741,315.241,370.91
Fourth Quarter	1,482.521,321.501,460.84
2017	
First Quarter	1,536.611,458.281,495.59
Second Quarter	1,519.301,462.201,505.75
Third Quarter	1,545.411,478.781,545.41
Fourth Quarter	1,622.331,538.801,614.02
2018	
First Quarter	1,705.571,523.491,559.34
Second Quarter (through June 29, 2018)	1,613.931,525.661,576.46

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The EURO STOXX 50® Index

Information as of market close on June 29, 2018:

Bloomberg Ticker Symbol: SX5E 52 Weeks Ago: 3,471.33

Current Level: 3,395.60 52 Week High (on 11/1/2017): 3,697.40

52 Week Low (on 3/26/2018): 3,278.72

# The EURO STOXX 50® Index – Historical Closing Levels January 1, 2013 to June 29, 2018

	High	Low	Period End
2013			
First Quarter	2,749.27	72,570.52	22,624.02
Second Quarter	2,835.87	72,511.83	32,602.59
Third Quarter	2,936.20	02,570.70	62,893.15
Fourth Quarter	3,111.37	72,902.12	23,109.00
2014			
First Quarter	3,172.43	32,962.49	93,161.60
Second Quarter	3,314.80	03,091.52	23,228.24
Third Quarter	3,289.75	53,006.83	33,225.93
Fourth Quarter	3,277.38	32,874.65	53,146.43
2015			
First Quarter	3,731.35	53,007.9	13,697.38
Second Quarter	3,828.78	33,424.30	03,424.30
Third Quarter	3,686.58	33,019.34	43,100.67
Fourth Quarter	3,506.45	53,069.05	53,267.52
2016			
First Quarter	3,178.0	12,680.3	53,004.93
Second Quarter	3,151.69	92,697.44	42,864.74
Third Quarter	3,091.66	52,761.37	73,002.24
Fourth Quarter	3,290.52	22,954.53	33,290.52
2017			
First Quarter	3,500.93	33,230.68	83,500.93
Second Quarter	3,658.79	93,409.78	83,441.88
Third Quarter	3,594.85	53,388.22	23,594.85
Fourth Quarter	3,697.40	03,503.90	63,503.96
2018			
First Quarter	3,672.29	93,278.72	23,361.50
Second Quarter (through June 29, 2018)	3,592.18	33,340.3	53,395.60

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The EURO STOXX 50® Banks Index

Information as of market close on June 29, 2018:

Bloomberg Ticker Symbol: SX7E 52 Weeks Ago: 132.83

Current Level: 110.45 52 Week High (on 1/29/2018): 143.05

52 Week Low (on 6/27/2018): 109.41

The EURO STOXX 50<sup>®</sup> Banks Index – Historical Closing Levels January 1, 2013 to June 29, 2018

	High	Low	Period End
2013			
First Quarter	127.75	5 101.95	5102.46
Second Quarter	118.77	7100.51	101.39
Third Quarter	129.63	3 100.57	125.84
Fourth Quarter	142.30	129.32	2141.43
2014			
First Quarter	156.58	3139.31	155.26
Second Quarter	162.81	1 145.66	146.52
Third Quarter	154.60	135.67	149.21
Fourth Quarter	149.39	9129.86	5134.51
2015			
First Quarter	158.53	3 124.29	157.65
Second Quarter	161.70	148.38	3149.91
Third Quarter	161.45	5128.04	131.34
Fourth Quarter	141.12	2123.03	3127.87
2016			
First Quarter	125.04	189.65	101.38
Second Quarter	111.28	379.03	83.25
Third Quarter	99.11	78.37	92.54
Fourth Quarter	120.34	191.84	117.67
2017			
First Quarter	127.52	2111.98	3127.52
Second Quarter	139.87	7118.94	131.16
Third Quarter	139.91	1 127.83	3138.38
Fourth Quarter	137.82	2129.98	3130.48
2018			
First Quarter	143.05	5123.72	2125.69
Second Quarter (through June 29, 2018)	131.97	7109.41	110.45

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The VanEck Vectors® Gold Miners ETF

Information as of market close on June 29, 2018:

Bloomberg Ticker Symbol: GDX 52 Weeks Ago: \$21.95

Current Price: \$22.31 52 Week High (on 9/7/2017): \$25.49

52 Week Low (on 7/7/2017): \$21.21

The VanEck Vectors® Gold Miners ETF – Historical Closing Prices January 1, 2013 to June 29, 2018

	High (\$) Low (\$) Period End (\$)		
2013			
First Quarter	47.09	35.91	37.85
Second Quarter	37.45	22.22	24.41
Third Quarter	30.43	22.90	25.06
Fourth Quarter	26.52	20.39	20.64
2014			
First Quarter	27.73	21.27	23.60
Second Quarter	26.45	22.04	26.45
Third Quarter	27.46	21.35	21.35
Fourth Quarter	21.94	16.59	18.45
2015			
First Quarter	22.94	17.67	18.24
Second Quarter	20.82	17.76	17.76
Third Quarter	17.85	13.04	13.74
Fourth Quarter	16.90	13.08	13.64
2016			
First Quarter	20.86	12.47	19.98
Second Quarter	27.70	19.53	27.70
Third Quarter	31.32	25.45	26.43
Fourth Quarter	25.96	18.99	20.92
2017			
First Quarter	25.57	21.14	22.81
Second Quarter	24.57	21.10	22.08
Third Quarter	25.49	21.21	22.96
Fourth Quarter	23.84	21.42	23.24
2018			
First Quarter	24.60	21.27	21.98
Second Quarter (through June 29, 2018)	23.06	21.81	22.31

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The Consumer Staples Select Sector SPDR® ETF

Information as of market close on June 29, 2018:

Bloomberg Ticker Symbol: XLP 52 Weeks Ago: \$54.84

Current Price: \$51.53 52 Week High (on 1/26/2018): \$58.71

52 Week Low (on 5/3/2018): \$48.98

The Consumer Staples Select Sector SPDR® ETF – Historical Closing Prices January 1, 2013 to June 29, 2018

	High (\$)	Low (\$)	Period End (\$)
2013			
First Quarter	39.76	35.47	39.76
Second Quarter	42.15	39.15	39.67
Third Quarter	41.80	39.23	39.80
Fourth Quarter	43.33	39.68	42.98
2014			
First Quarter	43.06	39.88	43.06
Second Quarter	45.67	42.75	44.62
Third Quarter	45.61	43.11	45.11
Fourth Quarter	49.46	44.09	48.49
2015			
First Quarter	50.21	47.95	48.74
Second Quarter	49.75	47.57	47.60
Third Quarter	50.82	45.70	47.19
Fourth Quarter	51.26	47.19	50.49
2016			
First Quarter	53.26	48.27	53.05
Second Quarter	55.15	51.77	55.15
Third Quarter	55.75	52.68	53.21
Fourth Quarter	52.87	50.25	51.71
2017			
First Quarter	55.42	51.44	54.58
Second Quarter	57.33	54.49	54.94
Third Quarter	55.86	53.92	53.98
Fourth Quarter	57.00	52.57	56.89
2018			
First Quarter	58.71	50.86	52.63
Second Quarter (through June 29, 2018)	53.28	48.98	51.53

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The iShares U.S. Telecommunications ETF

Information as of market close on June 29, 2018:

Bloomberg Ticker Symbol: IYZ 52 Weeks Ago: \$32.30 Current Price: \$27.5752 Week High (on 8/4/2017): \$32.57

52 Week Low (on 4/2/2018): \$26.51

The iShares U.S. Telecommunications ETF – Historical Closing Prices January 1, 2013 to June 29, 2018

	High (\$) Low (\$) Period End (\$)		
2013			
First Quarter	25.15	23.83	24.30
Second Quarter	27.48	24.27	25.85
Third Quarter	28.55	25.80	27.58
Fourth Quarter	29.76	27.28	29.73
2014			
First Quarter	30.00	27.85	29.98
Second Quarter	30.49	28.53	30.33
Third Quarter	31.38	29.68	29.95
Fourth Quarter	30.83	27.88	29.28
2015			
First Quarter	31.43	28.42	30.22
Second Quarter	31.71	29.24	29.28
Third Quarter	30.11	26.52	27.00
Fourth Quarter	30.40	26.66	28.79
2016			
First Quarter	30.73	25.45	30.73
Second Quarter	33.30	30.33	33.30
Third Quarter	34.65	31.60	32.22
Fourth Quarter	35.07	29.35	34.50
2017			
First Quarter	36.54	31.71	32.34
Second Quarter	34.57	31.81	32.26
Third Quarter	32.58	29.86	30.45
Fourth Quarter	31.89	27.56	29.41
2018			
First Quarter	29.73	26.68	27.02
Second Quarter (through June 29, 2018)	28.06	26.51	27.57

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Canadian Federal Income Tax Consequences

An investor should read carefully the description of material Canadian federal income tax considerations relevant to a Non-resident Holder owning debt securities under "Tax Consequences—Canadian Taxation" in the accompanying prospectus.

Supplemental Discussion of U.S. Federal Income Tax Consequences

The following, together with the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement, is a general description of the material U.S. tax considerations relating to the PLUS. It does not purport to be a complete analysis of all tax considerations relating to the PLUS. Prospective purchasers of the PLUS should consult their tax advisors as to the consequences under the tax laws of the country of which they are a resident for tax purposes and the tax laws of Canada and the United States of acquiring, holding and disposing of the PLUS and receiving payments under the PLUS. This summary is based upon the law as in effect on the date of this document and is subject to any change in law that may take effect after such date.

Supplemental U.S. Tax Considerations

CHANGES IN FEDERAL OR OTHER TAX LAWS.

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement. It applies only to those initial holders who are not excluded from the discussion of U.S. federal income taxation in the accompanying prospectus. It does not apply to holders subject to special rules including holders subject to Section 451(b) of the Internal Revenue Code of 1986, as amended (the "Code"). NO STATUTORY, JUDICIAL OR ADMINISTRATIVE AUTHORITY DIRECTLY DISCUSSES HOW THE PLUS SHOULD BE TREATED FOR U.S. FEDERAL INCOME TAX PURPOSES. AS A RESULT, THE U.S. FEDERAL INCOME TAX CONSEQUENCES OF AN INVESTMENT IN THE PLUS ARE UNCERTAIN. BECAUSE OF THE UNCERTAINTY, YOU SHOULD CONSULT YOUR TAX ADVISOR IN DETERMINING THE U.S. FEDERAL INCOME TAX AND OTHER TAX CONSEQUENCES OF YOUR INVESTMENT IN THE PLUS, INCLUDING THE APPLICATION OF STATE, LOCAL OR OTHER TAX LAWS AND THE POSSIBLE EFFECTS OF

We will not attempt to ascertain whether the basket components or any of the entities whose stock is included in the basket components would be treated as a "passive foreign investment company" within the meaning of Section 1297 of the Code, or a "U.S. real property holding corporation" within the meaning of Section 897 of the Code. If the basket components or any of the entities whose stock is included in the basket components were so treated, certain adverse U.S. federal income tax consequences could possibly apply to U.S. and non-U.S. holders, respectively. You should refer to any available information filed with the SEC and other authorities by the basket components or the entities whose stock is included in the basket components and consult your tax advisor regarding the possible consequences to you in this regard.

In the opinion of our counsel, Morrison & Foerster LLP, it would generally be reasonable to treat a PLUS as a pre-paid cash-settled derivative contract in respect of the basket for U.S. federal income tax purposes, and the terms of the PLUS require a holder and us (in the absence of a change in law or an administrative or judicial ruling to the contrary) to treat the PLUS for all tax purposes in accordance with such characterization. If the PLUS are so treated, a U.S. holder should generally recognize capital gain or loss upon the sale, exchange or maturity of the PLUS in an amount equal to the difference between the amount a holder receives at such time and the holder's tax basis in the

PLUS. In general, a U.S. holder's tax basis in the PLUS will be equal to the price the holder paid for the PLUS. Capital gain recognized by an individual U.S. holder is generally taxed at ordinary income rates where the property is held for one year or less. The deductibility of capital losses is subject to limitations.

Alternative Treatments. Alternative tax treatments of the PLUS are also possible and the Internal Revenue Service might assert that a treatment other than that described above is more appropriate. For example, it is possible to treat the PLUS, and the Internal Revenue Service might assert that a PLUS should be treated, as a single debt instrument. Pursuant to such characterization, the PLUS would generally be subject to the rules concerning short-term debt instruments as described under the heading "Tax Consequences — United States Taxation — Original Issue Discount — Short-Term Debt Securities" in the accompanying prospectus.

Because of the absence of authority regarding the appropriate tax characterization of the PLUS, it is also possible that the Internal Revenue Service could seek to characterize the PLUS in a manner that results in tax consequences that are different from those described above. For example, the Internal Revenue Service could possibly assert that any gain or loss that a holder may recognize upon the sale, exchange or maturity of the PLUS should be treated as ordinary gain or loss.

The Internal Revenue Service has released a notice that may affect the taxation of holders of the PLUS. According to the notice, the Internal Revenue Service and the U.S. Treasury Department are actively considering whether the holder of an instrument such as the PLUS should be required to accrue ordinary income on a current basis. 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 PLUS will ultimately be required to accrue income currently and this could be applied on a retroactive basis. The Internal Revenue Service and the U.S. Treasury

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Department are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital and whether the "constructive ownership rules" of Section 1260 of the Code, which very generally can operate to recharacterize certain long-term capital gains as ordinary income and impose an interest charge, might be applied to such instruments. Holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations. We intend to treat the PLUS for U.S. federal income tax purposes in accordance with the treatment described in this document unless and until such time as the U.S. Treasury Department and Internal Revenue Service determine that some other treatment is more appropriate. Backup Withholding and Information Reporting. Payments made with respect to the PLUS and proceeds from the sale or exchange of the PLUS may be subject to a backup withholding tax unless, in general, the holder complies with certain procedures or is an exempt recipient. Any amounts so withheld generally will be refunded by the Internal Revenue Service or allowed as a credit against the holder's U.S. federal income tax liability, provided the holder makes a timely filing of an appropriate tax return or refund claim to the Internal Revenue Service. Reports will be made to the Internal Revenue Service and to holders that are not exempted from the reporting requirements.

Non-U.S. Holders. The following discussion applies to non-U.S. holders of the PLUS. A non-U.S. holder is a beneficial owner of a PLUS that, for U.S. federal income tax purposes, is a non-resident alien individual, a foreign corporation, or a foreign estate or trust.

Except as described below, a non-U.S. holder will generally not be subject to U.S. federal income or withholding tax for amounts paid in respect of the PLUS, provided that (i) the holder complies with any applicable certification requirements, (ii) the payment is not effectively connected with the conduct by the holder of a U.S. trade or business, and (iii) if the holder is a non-resident alien individual, such holder is not present in the United States for 183 days or more during the taxable year of the sale, exchange or maturity of the PLUS. In the case of (ii) above, the holder generally would be subject to U.S. federal income tax with respect to any income or gain in the same manner as if the holder were a U.S. holder and, in the case of a holder that is a corporation, the holder may also be subject to a branch profits tax equal to 30% (or such lower rate provided by an applicable U.S. income tax treaty) of a portion of its earnings and profits for the taxable year that are effectively connected with its conduct of a U.S. trade or business, subject to certain adjustments. Payments made to a non-U.S. holder may be subject to information reporting and to backup withholding unless the holder complies with applicable certification and identification requirements as to its foreign status.

Under Section 871(m) of the Code, a "dividend equivalent" payment is treated as a dividend from sources within the United States. Such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments ("ELIs") that are "specified ELIs" may be treated as dividend equivalents if such specified ELIs reference an interest in an "underlying security," which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. However, the Internal Revenue Service has issued guidance that states that the U.S. Treasury Department and the Internal Revenue Service intend to amend the effective dates of the U.S. Treasury Department regulations to provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued

before January 1, 2019. Based on our determination that the PLUS are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the PLUS. However, it is possible that the PLUS could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the basket components or the PLUS (for example, upon an Index rebalancing), and following such occurrence the PLUS could be treated as subject to withholding on dividend equivalent payments. Non-U.S. holders that enter, or have entered, into other transactions in respect of the basket components or the PLUS should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the PLUS and their other transactions. If any payments are treated as dividend equivalents subject to withholding, we (or the applicable withholding agent) would be entitled to withhold taxes without being required to pay any additional amounts with respect to amounts so withheld.

As discussed above, alternative characterizations of the PLUS for U.S. federal income tax purposes are possible. Should an alternative characterization, by reason of change or clarification of the law, by regulation or otherwise, cause payments as to the PLUS to become subject to withholding tax, we will withhold tax at the applicable statutory rate. The Internal Revenue Service has also indicated that it is considering whether income in respect of instruments such as the PLUS should be subject to withholding tax. We will not be required to pay any additional amounts in respect of such withholding. Prospective investors should consult their own tax advisors in this regard. Foreign Account Tax Compliance Act. The Foreign Account Tax Compliance Act ("FATCA"), imposes a 30% U.S. withholding tax on certain U.S. source payments of interest (and OID), dividends, or other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property (including payments at maturity, or upon a redemption or sale) of a type which can produce U.S. source interest or dividends ("withholdable payments"), if paid to a foreign financial institution (including amounts paid to a foreign financial institution on your behalf) unless such institution enters into an agreement with the U.S. Treasury Department to collect and provide to the U.S. Treasury Department certain information regarding U.S. account holders, including certain account holders that are foreign entities with U.S. owners, with such institution or otherwise complies with FATCA. In addition, the PLUS may constitute a "financial account" for these purposes and thus, be subject to

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information reporting requirements pursuant to FATCA. The legislation also generally imposes a withholding tax of 30% on withholdable payments made to a non-financial foreign entity, unless that entity provides the withholding agent with a certification that it does not have any substantial U.S. owners or a certification identifying the direct and indirect substantial U.S. owners of the entity.

The U.S. Treasury Department and the Internal Revenue Service have announced that withholding on payments of gross proceeds from a sale or redemption of the PLUS will only apply to payments made after December 31, 2018. If we determine withholding is appropriate with respect to the PLUS, we will withhold tax at the applicable statutory rate, and we will not pay any additional amounts in respect of such withholding. Therefore, if such withholding applies, any payments on the PLUS will be significantly less than what you would have otherwise received. Depending on your circumstances, these amounts withheld may be creditable or refundable to you. Foreign financial institutions and non-financial foreign entities located in jurisdictions that have an intergovernmental agreement with the United States governing FATCA may be subject to different rules. You are urged to consult with your own tax advisor regarding the possible implications of FATCA on your investment in the PLUS.

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Use of Proceeds and Hedging

The net proceeds from the sale of the PLUS will be used as described under "Use of Proceeds" in the accompanying prospectus supplement and prospectus and to hedge market risks of Royal Bank of Canada associated with its obligation to make the payment at maturity on the PLUS. The initial public offering price of the PLUS includes the underwriting discount and commission and the estimated cost of hedging our obligations under the PLUS. Supplemental Information Regarding Plan of Distribution;

Conflicts of Interest

Pursuant to the terms of a distribution agreement, RBCCM, an affiliate of Royal Bank of Canada, will purchase the PLUS from Royal Bank of Canada for distribution to MSWM. RBCCM will act as agent for the PLUS and will receive a fee of \$0.175 per \$10 stated principal amount and will pay to MSWM a fixed sales commission of \$0.125 for each of the PLUS they sell. Of the amount per \$10 stated principal amount received by RBCCM, RBCCM will pay MSWM a structuring fee of \$0.05 for each PLUS.

MSWM may reclaim selling concessions allowed to individual brokers within MSWM in connection with the offering if, within 30 days of the offering, Royal Bank of Canada repurchases the PLUS distributed by such brokers. Delivery of the PLUS will be made against payment for the PLUS on July 5, 2018, which is the third business day following the pricing date (this settlement cycle being referred to as "T+3"). We expect to deliver the PLUS on a date that is greater than two business days following the pricing date. Under Rule 15c6-1 of the Exchange Act, 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 the PLUS more than two business days prior to the original issue date will be required to specify alternative settlement arrangements to prevent a failed settlement. In addition, RBCCM or another of its affiliates or agents may use this document in market-making transactions after the initial sale of the PLUS, but is under no obligation to do so and may discontinue any market-making activities at any time without notice.

The value of the PLUS shown on your account statement may be based on RBCCM's estimate of the value of the PLUS if RBCCM or another of our affiliates were to make a market in the PLUS (which it is not obligated to do). That estimate will be based on the price that RBCCM may pay for the PLUS in light of then prevailing market conditions, our creditworthiness and transaction costs. For an initial period of approximately three months, the value of the PLUS that may be shown on your account statement is expected to be higher than RBCCM's estimated value of the PLUS at that time. This is because the estimated value of the PLUS will not include the agent's commission and our hedging costs and profits; however, the value of the PLUS shown on your account statement during that period is initially expected to be a higher amount, reflecting the addition of the agent's commission and our estimated costs and profits from hedging the PLUS. This excess is expected to decrease over time until the end of this period, and we reserve the right to shorten this period. After this period, if RBCCM repurchases your PLUS, it expects to do so at prices that reflect its estimated value.

No Prospectus (as defined in Directive 2003/71/EC (as amended, the "Prospectus Directive")) will be prepared in connection with the PLUS. Accordingly, the PLUS may not be offered to the public in any member state of the European Economic Area (the "EEA"), and any purchaser of the PLUS who subsequently sells any of the PLUS in any EEA member state must do so only in accordance with the requirements of the Prospectus Directive, as implemented

in that member state.

The PLUS are not intended to be offered, sold or otherwise made available to, and should not be offered, sold or otherwise made available to, any retail investor in the EEA. For these purposes, the expression "offer" includes the communication in any form and by any means of sufficient information on the terms of the offer and the PLUS to be offered so as to enable an investor to decide to purchase or subscribe the PLUS, and a "retail investor" means a person who is one (or more) of: (a) a retail client, as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, "MiFID II"); or (b) a customer, within the meaning of Insurance Distribution Directive 2016/97/EU, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (c) not a qualified investor as defined in the Prospectus Directive. Consequently, no key information document required by Regulation (EU) No 1286/2014 (as amended, the "PRIIPs Regulation") for offering or selling the PLUS or otherwise making them available to retail investors in the EEA has been prepared, and therefore, offering or selling the PLUS or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

For additional information as to the relationship between us and RBCCM, please see the section "Plan of Distribution—Conflicts of Interest" in the accompanying prospectus.

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Structuring the PLUS

The PLUS are our debt securities, the return on which is linked to the performance of the basket. As is the case for all of our debt securities, including our structured notes, the economic terms of the PLUS reflect our actual or perceived creditworthiness at the time of pricing. In addition, because structured notes result in increased operational, funding and liability management costs to us, we typically borrow the funds under these securities at a rate that is more favorable to us than the rate that we might pay for a conventional fixed or floating rate debt security of comparable maturity. Using this relatively lower implied borrowing rate, rather than the secondary market rate, along with the fees and expenses associated with structured notes, reduced the initial estimated value of the PLUS at the time their terms are set. Unlike the estimated value included in this document, any value of the PLUS determined for purposes of a secondary market transaction may be based on a different funding rate, which may result in a lower value for the PLUS than if our initial internal funding rate were used.

In order to satisfy our payment obligations under the PLUS, we may choose to enter into certain hedging arrangements (which may include call options, put options or other derivatives) on the issue date with RBCCM or one of our other subsidiaries. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of each basket component, and the tenor of the PLUS. The economic terms of the PLUS and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate, the underwriting commission and the hedging-related costs relating to the PLUS reduced the economic terms of the PLUS to you and resulted in the initial estimated value for the PLUS on the pricing date being less than their public offering price. See "Risk Factors—The initial estimated value of the PLUS is less than the price to the public" above.

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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 PLUS.

The Employee Retirement Income Security Act of 1974, as amended ("ERISA"), imposes certain requirements on "employee benefit plans" (as defined in Section 3(3) of ERISA) subject to ERISA, including entities such as collective investment funds and separate accounts whose underlying assets include the assets of such plans (collectively, "ERISA Plans") and on those persons who are fiduciaries with respect to ERISA Plans. Each fiduciary of an ERISA Plan should consider the fiduciary standards of ERISA in the context of the ERISA Plan's particular circumstances before authorizing an investment in the PLUS. Accordingly, among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the ERISA Plan.

In addition, Section 406 of ERISA and Section 4975 of the Internal Revenue Code prohibit certain transactions involving the assets of an ERISA Plan, as well as those plans that are not subject to ERISA but which are subject to Section 4975 of the Internal Revenue Code, such as individual retirement accounts, including entities whose underlying assets include the assets of such plans (together with ERISA Plans, "Plans") and certain persons (referred to as "parties in interest" or "disqualified persons") having certain relationships to such Plans, unless a statutory or administrative exemption is applicable to the transaction. Governmental plans may be subject to similar prohibitions. Therefore, a plan fiduciary considering purchasing PLUS should consider whether the purchase or holding of such instruments might constitute a "prohibited transaction."

Royal Bank of Canada and certain of its affiliates each may be considered a "party in interest" or a "disqualified person" with respect to many employee benefit plans by reason of, for example, Royal Bank of Canada (or its affiliate) providing services to such plans. Prohibited transactions within the meaning of ERISA or the Internal Revenue Code may arise, for example, if PLUS are acquired by or with the assets of a Plan, and with respect to which Royal Bank of Canada or any of its affiliates is a "party in interest" or a "disqualified person," unless those PLUS are acquired under an exemption for transactions effected on behalf of that Plan by a "qualified professional asset manager" or an "in-house asset manager," for transactions involving insurance company general accounts, for transactions involving insurance company pooled separate accounts, for transactions involving bank collective investment funds, or under another available exemption. Section 408(b)(17) provides an additional exemption for the purchase and sale of securities and related lending transactions where neither the issuer of the securities nor any of its affiliates have or exercise any discretionary authority or control or render any investment advice with respect to the assets of any Plan involved in the transaction and the Plan pays no more than "adequate consideration" in connection with the transaction. The person making the decision on behalf of a Plan or a governmental plan shall be deemed, on behalf of itself and any such plan, by purchasing and holding the PLUS, or exercising any rights related thereto, to represent that (a) such purchase, holding and exercise of the PLUS will not result in a non-exempt prohibited transaction under ERISA or the Internal Revenue Code (or, with respect to a governmental plan, under any similar applicable law or regulation) and (b) neither Royal Bank of Canada nor any of its affiliates is a "fiduciary" (within the meaning of Section 3(21) of ERISA) with respect to the purchaser or holder in connection with such person's acquisition, disposition or holding of the PLUS, or any exercise related thereto or as a result of any exercise by Royal Bank of Canada or any of its affiliates of any rights

in connection with the PLUS, and no advice provided by Royal Bank of Canada or any of its affiliates has formed a primary basis for any investment decision by or on behalf of such purchaser or holder in connection with the PLUS and the transactions contemplated with respect to the PLUS.

If you are an insurance company or the fiduciary of a pension plan or an employee benefit plan, and propose to invest in the PLUS, you should consult your legal counsel.