ROYAL BANK OF CANADA Form FWP October 12, 2018

### ISSUER FREE WRITING PROSPECTUS

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Dated October 12, 2018

Royal Bank of Canada Trigger Autocallable Contingent Yield Notes

\$[·] Notes Linked to the Least Performing Underlying of the S&P 500<sup>®</sup> Index and the EURO STOXX 50<sup>®</sup> Index due on or about October 17, 2019

Investment Description

Trigger Autocallable Contingent Yield Notes (the "Notes") are unsecured and unsubordinated debt securities issued by Royal Bank of Canada linked to the performance of the least performing of the S&P 500<sup>®</sup> Index and the Russell 2000<sup>®</sup> Index (each, an "Underlying Index," and together, the "Underlying Indices"). We will pay a quarterly Contingent Coupon payment if the closing levels of both Underlying Indices on the applicable Coupon Observation Date are equal to or greater than their respective Coupon Barriers. Otherwise, no coupon will be paid for that quarter. We will automatically call the Notes early if the closing levels of both Underlying Indices on any quarterly Call Observation Date are equal to or greater than their respective Initial Levels. If the Notes are called, we will pay you the principal amount of your Notes plus the Contingent Coupon for the applicable quarter, and no further amounts will be owed to you under the Notes. If the Notes are not called prior to maturity and the Final Levels of both Underlying Indices are equal to or greater than their respective Downside Thresholds (which are the same levels as their respective Coupon Barriers), we will pay you a cash payment at maturity equal to the principal amount of your Notes plus the Contingent Coupon for the final quarter. However, if the Final Level of the Underlying Index with the lowest percentage change from its Initial Level (the "Least Performing Underlying Index") is less than its Downside Threshold, we will pay you less than the full principal amount, if anything, resulting in a loss on your initial investment that is proportionate to the negative performance of the Least Performing Underlying Index over the term of the Notes, and you may lose up to 100% of your initial investment. The Notes are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act.

Investing in the Notes involves significant risks. You will not receive a coupon for any Coupon Observation Date on which either Underlying Index closes below its Coupon Barrier. The Notes will not be automatically called if either Underlying Index closes below its Initial Level on a quarterly Call Observation Date. You may lose some or all of your principal amount if the Least Performing Underlying Index closes below its Downside Threshold, regardless of the performance of the other Underlying Index. The contingent repayment of principal only applies if you hold the Notes until maturity. Generally, the higher the Contingent Coupon Rate on a security, the greater the risk of loss. Any payment on the Notes, including any repayment of principal, is subject to our creditworthiness. If we were to default on our payment obligations, you may not receive any amounts owed to you under the Notes and you could lose your entire investment. The Notes will not be listed on any securities exchange.

Features Key Dates<sup>1</sup>

Contingent Coupon — We will pay a quarterly Contingent Coupon payment if the closing levels of both Underlying qIndices on the applicable Coupon Observation Date are equal to or greater than their respective Coupon Barriers. Otherwise, no coupon will be paid for the quarter.

Automatically Callable — We will automatically call the Notes and pay you the principal amount of your Notes plus the Contingent Coupon otherwise due for the applicable quarter if the closing levels of both Underlying Indices on any quarterly Call Observation Date are equal to or greater than their respective Initial Levels. If the Notes are not

called, investors will have the potential for downside equity market risk at maturity.

qContingent Repayment of Principal at Maturity — If by maturity the Notes have not been called and each Underlying Index does not close below its Downside Threshold on the Final Valuation Date, we will repay your principal amount per Note at maturity. However, if the closing level of the Least Performing Underlying Index is less than its Downside Threshold on the Final Valuation Date, we will pay less than the principal amount, if anything, resulting

in a loss on your initial investment that is proportionate to the decline in the level of the Least Performing Underlying Index from the trade date to the Final Valuation Date. The contingent repayment of principal only applies if you hold the Notes until maturity. Any payment on the Notes, including any repayment of principal, is subject to our creditworthiness.

Trade Date <sup>1</sup>	October 12, 2018
Settlement Date <sup>1</sup>	October 17, 2018
Coupon Observation Dates <sup>2</sup>	Quarterly (see page 6)
Call Observation Dates <sup>2</sup>	Quarterly (see page 6)
Final Valuation Date <sup>2</sup>	October 14, 2019
Maturity Date <sup>2</sup>	October 17, 2019

Expected. In the event that we make any change to the expected trade date and settlement date, the Coupon <sup>1</sup>Observation Dates, the Call Observation Dates, the Final Valuation Date and/or the maturity date will be changed so that the stated term of the Notes remains approximately the same.

<sub>2</sub>Subject to postponement if a market disruption event occurs, as described under "General Terms of the

Notes—Payment at Maturity" below

NOTICE TO INVESTORS: THE NOTES ARE SIGNIFICANTLY RISKIER THAN CONVENTIONAL DEBT INSTRUMENTS. THE ISSUER IS NOT NECESSARILY OBLIGATED TO REPAY THE FULL PRINCIPAL AMOUNT OF THE NOTES AT MATURITY, AND THE NOTES CAN HAVE DOWNSIDE MARKET RISK SIMILAR TO THE LEAST PERFORMING UNDERLYING INDEX. YOU MAY BE EXPOSED TO THE MARKET RISK OF EACH UNDERLYING INDEX ON THE FINAL VALUATION DATE, AND ANY DECLINE IN THE LEVEL OF ANY UNDERLYING INDEX MAY NEGATIVELY AFFECT YOUR RETURN AND WILL NOT BE OFFSET OR MITIGATED BY A LESSER DECLINE OR ANY POTENTIAL INCREASE IN THE LEVEL OF THE OTHER UNDERLYING INDEX. THIS MARKET RISK IS IN ADDITION TO THE CREDIT RISK INHERENT IN PURCHASING A DEBT OBLIGATION OF ROYAL BANK OF CANADA. YOU SHOULD NOT PURCHASE THE NOTES IF YOU DO NOT UNDERSTAND OR ARE NOT COMFORTABLE WITH THE SIGNIFICANT RISKS INVOLVED IN INVESTING IN THE NOTES.

YOU SHOULD CAREFULLY CONSIDER THE RISKS DESCRIBED UNDER "KEY RISKS" BEGINNING ON PAGE 7 OF THIS FREE WRITING PROSPECTUS AND UNDER "RISK FACTORS" BEGINNING ON PAGE S-1 OF THE PROSPECTUS SUPPLEMENT BEFORE PURCHASING ANY NOTES. EVENTS RELATING TO ANY OF THOSE RISKS, OR OTHER RISKS AND UNCERTAINTIES, COULD ADVERSELY AFFECT THE MARKET VALUE OF, AND THE RETURN ON, YOUR NOTES. YOU MAY LOSE SOME OR ALL OF YOUR INITIAL INVESTMENT IN THE NOTES.

## Note Offering

This free writing prospectus relates to Trigger Autocallable Contingent Yield Notes we are offering linked to the least performing underlying of the S&P 500<sup>®</sup> Index and the Russell 2000<sup>®</sup> Index. The Initial Levels, Downside Thresholds, Coupon Barriers and Contingent Coupon Rate for the Notes will be determined on the trade date. The Notes will be issued in minimum denominations of \$10.00, and integral multiples of \$10.00 in excess thereof, with a minimum investment of \$1,000.00.

Underlying Indices	Tickor	Contingent	Initial	Downside	Coupon	CUSID	ICIN
(Least Performing of)	Tickers	Coupon Rate	Levels	Thresholds	Barriers	CUSIF	1311
S&D 500® Index (SDX)	SDY			60% of its Initial	60% of its		
S&P 300° Index (SPA) SPA		6.30% per		Level	Initial Level	700146650119700146	21187201466585
EURO STOXX 50®	SV5E	annum		60% of its Initial	60% of its	/80140036	5057801400585
Index (SX5E)	SAJE		•	Level	Initial Level		

See "Additional Information About Royal Bank of Canada and the Notes" in this free writing prospectus. The Notes will have the terms specified in the prospectus dated September 7, 2018, the prospectus supplement dated September 7, 2018, and this free writing prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of

the Notes or passed upon the accuracy or the adequacy of this free writing prospectus or the accompanying prospectus and prospectus supplement. Any representation to the contrary is a criminal offense.

	Price to Public $\begin{array}{c} \text{Fees and} \\ \text{Commissions}^{(1)} \end{array}$ Proceeds to Us
Offering of the Notes	Total Per Note Total Per Note Total Per Note
Notes linked to the Least Performing Underlying of the S&P 500 <sup>®</sup> Index and the EURO STOXX 50 <sup>®</sup> Index	· \$10.00 \$0.00 \$0.00 · \$10.00

<sup>(1)</sup> All sales of the Notes will be made to certain fee-based advisory accounts for which UBS Financial Services Inc., which we refer to as UBS, is an investment advisor and UBS will act as placement agent. The purchase price will be \$10.00 per Note and UBS will forego any commissions related to these sales. See "Supplemental Plan of Distribution (Conflicts of Interest)" below.

The initial estimated value of the Notes as of the date of this document is \$9.9148 per \$10 in principal amount, which is less than the price to public. The pricing supplement relating to the Notes will set forth our updated estimate of the initial value of the Notes as of the trade date, which will not be more than \$0.20 less than this amount. The actual value of the Notes at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value under "Key Risks," "Supplemental Plan of Distribution (Conflicts of Interest)" and "Structuring the Notes" below.

The Notes will not constitute deposits insured under the Canada Deposit Insurance Corporation Act or by the United States Federal Deposit Insurance Corporation or any other Canadian or United States government agency or instrumentality.

UBS Financial Services Inc. RBC Capital Markets, LLC

Additional Information About Royal Bank of Canada and the Notes

Royal Bank of Canada has filed a registration statement (including a prospectus) with the Securities and Exchange Commission, or SEC, for the offering to which this free writing prospectus relates. Before you invest, you should read the prospectus in that registration statement and the other documents relating to this offering that Royal Bank of Canada has filed with the SEC for more complete information about Royal Bank of Canada and this offering. You may obtain these documents without cost by visiting EDGAR on the SEC website at www.sec.gov. Alternatively, Royal Bank of Canada, any agent or any dealer participating in this offering will arrange to send you the prospectus, the prospectus supplement, and this free writing prospectus if you so request by calling toll-free 1-877-688-2301. You may revoke your offer to purchase the Notes at any time prior to the time at which we accept such offer by notifying the applicable agent. We reserve the right to change the terms of, or reject any offer to purchase, the Notes prior to their issuance. In the event of any changes to the terms of the Notes, we will notify you and you will be asked to accept such changes in connection with your purchase. You may also choose to reject such changes, in which case we may reject your offer to purchase.

You should read this free writing prospectus together with the prospectus dated September 7, 2018, as supplemented by the prospectus supplement dated September 7, 2018, relating to our Series H medium-term notes of which these Notes are a part. This free writing prospectus, together with the documents listed below, contains the terms of the Notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in "Key Risks" below, as the Notes involve risks not associated with conventional debt securities.

If the terms of the prospectus and prospectus supplement are inconsistent with the terms discussed herein, the terms discussed in this free writing prospectus will control.

You may access these on the SEC website at www.sec.gov as follows (or if such address has changed, by reviewing our filing for the relevant date on the SEC website):

"Prospectus supplement dated September 7, 2018:

https://www.sec.gov/Archives/edgar/data/1000275/000121465918005975/f97180424b3.htm "Prospectus dated September 7, 2018:

https://www.sec.gov/Archives/edgar/data/1000275/000121465918005973/196181424b3.htm As used in this free writing prospectus, "we," "us" or "our" refers to Royal Bank of Canada.

Investor Suitability

The Notes may be suitable for you if, among other considerations:

- ..You fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire initial investment.
- You can tolerate a loss of all or a substantial portion of your investment and are willing to make an investment that "may have the same downside market risk as an investment in the securities composing the Least Performing Underlying Index.
- "You believe the closing levels of both Underlying Indices will be equal to or greater than their respective Coupon Barriers on most or all of the Coupon Observation Dates (including the Final Valuation Date).
- ..You are willing to make an investment whose return is limited to the applicable Contingent Coupon payments, regardless of any potential appreciation of the Underlying Indices, which could be significant.
- "You do not seek guaranteed current income from this investment and are willing to forgo the dividends paid on the equity securities composing the Underlying Indices.
- ..You can tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside fluctuations of the Underlying Indices.
- You are willing to invest in Notes for which there may be little or no secondary market, and you accept that the "secondary market will depend in large part on the price, if any, at which RBC Capital Markets, LLC, which we refer to as "RBCCM," is willing to purchase the Notes.
- ..You would be willing to invest in the Notes based on the Contingent Coupon Rate specified on the cover page of this free writing prospectus.
- "You are willing to accept individual exposure to each Underlying Index and that the performance of the Least Performing Underlying Index will not be offset or mitigated by the performance of the other Underlying Index.
- "You understand and accept the risks associated with the Underlying Indices.
- ..You are willing to invest in securities that may be called early and you are otherwise willing to hold such securities to maturity.
- ..You are willing to assume our credit risk for all payments under the Notes, and understand that if we default on our obligations, you may not receive any amounts due to you, including any repayment of principal.
- The Notes may not be suitable for you if, among other considerations:
- ..You do not fully understand the risks inherent in an investment in the Notes, including the risk of loss of your entire initial investment.
- "You cannot tolerate a loss on your investment and require an investment designed to provide a full return of principal at maturity.
- "You are not willing to make an investment that may have the same downside market risk as an investment in the equity securities composing the Least Performing Underlying Index.
- You believe that the level of either Underlying Index will decline during the term of the Notes and is likely to close "below its Coupon Barrier on most or all of the Coupon Observation Dates and below its Downside Threshold on the Final Valuation Date.
- "You seek an investment that participates in the full appreciation in the levels of the Underlying Indices or that has unlimited return potential.
- "You cannot tolerate fluctuations in the price of the Notes prior to maturity that may be similar to or exceed the downside fluctuations of the Least Performing Underlying Index.
- "You would be unwilling to invest in the Notes based on the Contingent Coupon Rate specified on the cover page of this free writing prospectus.
- "You are unwilling to accept individual exposure to each Underlying Index and that the performance of the Least Performing Underlying Index will not be offset or mitigated by the performance of the other Underlying Index.
- "You seek guaranteed current income from this investment or prefer to receive the dividends paid on the securities composing the Underlying Indices.
- "You do not understand or accept the risks associated with the Underlying Indices.
- You are unable or unwilling to hold securities that may be called early, or you are otherwise unable or unwilling to "hold such securities to maturity, or you seek an investment for which there will be an active secondary market for the Notes.

"You are not willing to assume our credit risk for all payments under the Notes, including any repayment of principal.

The suitability considerations identified above are not exhaustive. Whether or not the Notes are a suitable investment for you will depend on your individual circumstances, and you should reach an investment decision only after you and your investment, legal, tax, accounting, and other advisers have carefully considered the suitability of an investment in the Notes in light of your particular circumstances. You should also review carefully the "Key Risks" beginning on page 7 of this free writing prospectus for risks related to an investment in the Notes. In addition, you should review carefully the section below, "Information About the Underlying Indices," for more information about these indices.

Indicative Term	ns of the Notes <sup>1</sup>				
Issuer:	Royal Bank of Canada				
Principal					
Amount per Note:	\$10 per Note				
Term: <sup>2</sup>	Approximately one year, if not previously called				
Underlying Indices:	The S&P 500 <sup>®</sup> Index ("SPX") and the EURO STOXX <b>3</b> 0Index ("SX5E")				
	If the closing levels of both Underlying Indices are equal to or greater than their respective Coupon Barriers on any Coupon Observation Date, we will pay you the Contingent Coupon applicable to that Coupon Observation Date.				
Contingent Coupon:	If the closing level of either Underlying Index is less than its Coupon Barrier on any Coupon Observation Date, the Contingent Coupon applicable to that Coupon Observation Date will not accrue or be payable, and we will not make any payment to you on the relevant Contingent Coupon Payment Date				
	The Contingent Coupon will be a fixed amount based upon equal quarterly installments at the Contingent Coupon Rate, which is 6.30% per annum (or 1.575% per quarter for each \$10.00 principal amount Note.				
Contingent Con	upon payments on the Notes are not guaranteed. We will not pay you the Contingent Coupon for any				
Coupon Observ	vation Date on which the closing level of either Underlying Index is less than its Coupon Barrier.				
Contingent					
Coupon Rate:	6.30% per annum				
Nate.	The Notes will be called automatically if the closing levels of both Underlying Indices on any Call				
	Observation Date (set forth on page 6) are equal to or greater than their respective Initial Levels.				
Automatic Call Feature:	If the Notes are called, we will pay you on the corresponding Coupon Payment Date (which will be the "Call Settlement Date") a cash payment per Note equal to the principal amount per Note plus the applicable Contingent Coupon payment otherwise due on that day (the "Call Settlement Amount"). No further amounts will be owed to you under the Notes.				
	If the Notes are not called and the Final Levels of both Underlying Indices are equal to or greater than their respective Downside Thresholds and the Coupon Barriers, we will pay you a cash payment per Note on the maturity date equal to \$10 plus the Contingent Coupon otherwise due on the maturity data				
Payment at Maturity:	If the Notes are not called and the Final Level of the Least Performing Underlying Index is less than its Downside Threshold, we will pay you a cash payment on the maturity date of less than the principal amount, if anything, resulting in a loss on your initial investment that is proportionate to the negative Underlying Index Return of the Least Performing Underlying Index, equal to: \$10.00 + (\$10.00 × Underlying Index Return of the Least Performing Underlying Index)				
Least					
Performing Underlying Index:	The Underlying Index with the lowest Underlying Index Return.				

Underlying IndexWith respect to each Underlying Index,Returns:Final Level – Initial Level

<sup>&</sup>lt;sup>1</sup> Terms used in this free writing prospectus, but not defined herein, shall have the meanings ascribed to them in the prospectus or the prospectus supplement.

<sup>&</sup>lt;sup>2</sup> In the event we make any change to the expected trade date and settlement date, the Observation Dates, maturity date and other dates will be changed.

	Initial Level
Downside	With respect to each Underlying Index, 60% of its Initial Level, to be determined on the trade date.
Thresholds:	The Downside Threshold will equal the Coupon Barrier.
С	With respect to each Underlying Index, 60% of its Initial Level, to be determined on the trade date.
Coupoir Darriers.	The Coupon Barrier will equal the Downside Threshold.
Initial Levels:	With respect to each Underlying Index, its closing level on the trade date.
Final Lavals.	With respect to each Underlying Index, its closing level on the Final Valuation Date, as
Fillar Levels.	determined by the calculation agent.

#### **Investment Timeline**

Trada	The Initial Level, Downside Threshold and Coupon Barrier of each Underlying Index are determined.
Trade	The Contingent Coupon Pate is set
Date:	The Contingent Coupon Rate is set.

If the closing levels of both Underlying Indices are equal to or greater than their respective Coupon Barriers on any Coupon Observation Date, we will pay you a Contingent Coupon payment on the applicable Coupon Payment Date.

Quarterly: The Notes will be called if the closing levels of both Underlying Indices on any Call Observation Date are equal to or greater than their respective Initial Levels. If the Notes are called, we will pay you a cash payment per Note equal to \$10.00 plus the Contingent Coupon otherwise due on that date.

The Final Level of each Underlying Index is observed on the Final Valuation Date.

Maturity If the Notes have not been called and the Final Levels of both Underlying Indices are equal to or greater than their respective Downside Thresholds (and their respective Coupon Barriers), we will repay the principal amount equal to \$10 per Note plus the Contingent Coupon otherwise due on the maturity date. If the Notes have not been called and the Final Level of the Least Performing Underlying Index is less than its Downside Threshold, we will pay less than the principal amount, if anything, resulting in a loss on your initial investment proportionate to the decline of the Least Performing Underlying Index, for an amount equal to:

\$10 + (\$10× Underlying Index Return of the Least Performing Underlying Index) per Note INVESTING IN THE NOTES INVOLVES SIGNIFICANT RISKS. YOU MAY LOSE SOME OR ALL OF YOUR PRINCIPAL AMOUNT. YOU WILL BE EXPOSED TO THE MARKET RISK OF EACH UNDERLYING INDEX ON EACH COUPON OBSERVATION DATE AND ON THE FINAL VALUATION DATE, AND ANY DECLINE IN THE LEVEL OF ONE UNDERLYING INDEX MAY NEGATIVELY AFFECT YOUR RETURN AND WILL NOT BE OFFSET OR MITIGATED BY A LESSER DECLINE OR ANY POTENTIAL INCREASE IN THE LEVEL OF THE OTHER UNDERLYING INDEX. ANY PAYMENT ON THE NOTES, INCLUDING ANY REPAYMENT OF PRINCIPAL, IS SUBJECT TO OUR CREDITWORTHINESS. IF WE WERE TO DEFAULT ON OUR PAYMENT OBLIGATIONS, YOU MAY NOT RECEIVE ANY AMOUNTS OWED TO YOU UNDER THE NOTES AND YOU COULD LOSE YOUR ENTIRE INVESTMENT.

Coupon Observation Dates and Coupon Payment Dates\*

Coupon Payment Dates
January 16, 2019 <sup>(2)</sup>
April 16, 2019 <sup>(2)</sup>
July 16, 2019 <sup>(2)</sup>
October 17, 2019 <sup>(4)</sup>

- (1) These Coupon Observation Dates are also Call Observation Dates.
- (2) These Coupon Payment Dates are also Call Settlement Dates.
- (3) This is also the Final Valuation Date.
- (4) This is also the maturity date.

\* Expected. Subject to postponement if a market disruption event occurs, as described below under "General Terms of the Notes—Market Disruption Events."

#### Key Risks

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the securities composing the Underlying Indices. In addition, your investment in the Notes entails other risks not associated with an investment in conventional debt securities. You should consider carefully the following discussion of risks before you decide that an investment in the Notes is suitable for you. We also urge you to consult your investment, legal, tax, accounting and other advisors before investing in the Notes.

Risks Relating to the Notes Generally

Risk of Loss at Maturity. The Notes differ from ordinary debt securities in that we will not necessarily repay the full principal amount of the Notes at maturity. If the Notes are not called, we will repay you the principal amount of your ...Notes in cash only if the Final Level of each Underlying Index is greater than or equal to its Downside Threshold, and we will only make that payment at maturity. If the Notes are not called and the Final Level of the Least Performing Underlying Index is less than its Downside Threshold, you will lose some or all of your initial investment in an amount proportionate to the decline in the level of the Least Performing Underlying Index.

The contingent repayment of principal applies only at maturity. If the Notes are not automatically called, you should ...be willing to hold your Notes to maturity. If you are able to sell your Notes prior to maturity in the secondary market, if any, you may have to do so at a loss relative to your initial investment, even if the levels of both Underlying Indices are above their respective Downside Thresholds.

You may not receive any Contingent Coupons. Royal Bank of Canada will not necessarily make periodic Contingent Coupon payments on the Notes. If the closing levels of both Underlying Indices on a Coupon Observation Date are less than their respective Coupon Barriers, we will not pay you the Contingent Coupon applicable to that Coupon Observation Date. If the closing levels of both Underlying Indices are less than their respective Coupon Barriers on "each of the Coupon Observation Dates, we will not pay you any Contingent Coupons during the term of, and you will not receive a positive return on, your Notes. Generally, this non-payment of the Contingent Coupon coincides with a period of greater risk of principal loss on your Notes. Accordingly, if we do not pay the Contingent Coupon on the maturity date, you will incur a loss of principal, because the Final Level of the Least Performing Underlying Index will be less than its Downside Threshold.

The Call Feature and the Contingent Coupon Feature limit your potential return. The return potential of the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the Underlying Indices. In addition, the total return on the Notes will vary based on the number of Coupon Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the automatic call feature, you will not receive any Contingent Coupons or any other payment in respect of any Coupon Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as the ...first Call Observation Date, the total return on the Notes could be limited to three months. If the Notes are not called, you may be subject to the full downside performance of the Least Performing Underlying Index, even though your potential return is limited to the Contingent Coupon Rate. Generally, the longer the Notes are outstanding, the less likely it is that they will be automatically called due to the decline in the levels of the Underlying Indices and the shorter time remaining for the levels of the Underlying Indices to recover. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the appreciation of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the levels of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the levels of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the levels of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the levels of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the levels of the Underlying Indices or on a similar security that allows you to participate in the appreciation of the

Indices.

"The Contingent Coupon Rate will reflect in part the volatility and correlation of the Underlying Indices and may not be sufficient to compensate you for the risk of loss at maturity. "Volatility" refers to the frequency and magnitude of changes in the levels of the Underlying Indices. The greater the volatility of the Underlying Indices, the more likely it is that the level of either Underlying Index could close below its Downside Threshold on the Final Valuation Date. This risk will generally be reflected in a higher Contingent Coupon Rate for the Notes than the interest rate payable on our conventional debt securities with a comparable term. In addition, lower correlation between the Underlying Indices can also indicate a greater likelihood of one Underlying Index closing below its Coupon Barrier or Downside Threshold on a Coupon Observation Date or Final Valuation Date. This greater risk will also be reflected in a higher Contingent Coupon Rate than on a security linked to Underlying Indices with a greater degree of correlation. However, while the Contingent Coupon will be a fixed amount, the Underlying Indices' volatility and correlation can

change significantly over the term of the Notes. The levels of one or both of the Underlying Indices could fall sharply as of the Final Valuation Date, which could result in missed Contingent Coupon payments and a significant loss of your principal amount.

The Notes may be called early and are subject to reinvestment risk. The Notes will be called automatically if the closing levels of both Underlying Indices are equal to or greater than their respective Initial Levels on any Call Observation Date. In the event that the Notes are called prior to maturity, there is no guarantee that you will be able "to reinvest the proceeds from an investment in the Notes at a comparable rate of return for a similar level of risk. To

- the extent you are able to reinvest your proceeds in an investment comparable to the Notes, you will incur transaction costs and the original issue price for such an investment is likely to include certain built in costs such as dealer discounts and hedging costs.
- The Notes are subject to our credit risk. The Notes are subject to our credit risk, and our credit ratings and credit spreads may adversely affect the market value of the Notes. Investors are dependent on our ability to pay all amounts due on the Notes, and therefore investors are subject to our credit risk and to changes in the market's view of our creditworthiness. Any decline in our credit ratings or increase in the credit spreads charged by the market for taking our credit risk is likely to adversely affect the value of the Notes. If we were to default on our payment obligations, you may not receive any amounts owed to you under the Notes and you could lose your entire investment. The initial estimated value of the Notes will be less than the price to the public. The initial estimated value for the Notes that is set forth on the cover page of this document, and that will be set forth in the final pricing supplement for the Notes, will be less than the public offering price you pay for the Notes, and does not represent a minimum price at which we, RBCCM or any of our other affiliates would be willing to purchase the Notes in any secondary market (if any exists) at any time. If you attempt to sell the Notes prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the levels of the Underlying Indices, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to public of our estimated profit and the costs relating to our hedging of the Notes. These factors, together with various credit, market and economic factors over the term of the Notes, are expected to reduce the price at which you may be able to sell the Notes in any secondary market and will affect the value of the Notes in complex and unpredictable ways. Assuming no change in market conditions or any other relevant

factors, the price, if any, at which you may be able to sell your Notes prior to maturity may be less than the price to public, as any such sale price would not be expected to include our estimated profit and the costs relating to our hedging of the Notes. In addition, any price at which you may sell the Notes is likely to reflect customary bid-ask spreads for similar trades. In addition to bid-ask spreads, the value of the Notes determined for any secondary market price is expected to be based on a secondary market rate rather than the internal borrowing rate used to price the Notes and determine the initial estimated value. As a result, the secondary market price will be less than if the internal borrowing rate was used. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.

Our initial estimated value of the Notes is an estimate only, calculated as of the time the terms of the Notes are set. The initial estimated value of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes. See

"Structuring the Notes" below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Notes. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Notes or similar securities at a price that is significantly different than we do.

The value of the Notes at any time after the trade date will vary based on many factors, including changes in market conditions, and cannot be predicted with accuracy. As a result, the actual value you would receive if you sold the Notes in any secondary market, if any, should be expected to differ materially from the initial estimated value of your Notes and the amount that may be paid at maturity.

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You will not participate in any appreciation of the Underlying Indices, and any potential return on the Notes is limited. The return on the Notes is limited to the pre-specified Contingent Coupon Rate, regardless of the appreciation of the Underlying Indices. As a result, the return on an investment in the Notes could be less than the return on a direct investment in the Underlying Indices. In addition, the total return on the Notes will vary based on the number of Coupon Observation Dates on which the Contingent Coupon becomes payable prior to maturity or an automatic call. Further, if the Notes are called due to the automatic call feature, you will not receive any Contingent "Coupons or any other payment in respect of any Coupon Observation Dates after the applicable Call Settlement Date. Since the Notes could be called as early as the second Coupon Observation Date, the total return on the Notes could be minimal. On the other hand, if the Notes have not been previously called and if the level of an Underlying Index is less than its Initial Level, as the maturity Date approaches and the remaining number of Coupon Observation Dates to increase to its Initial Level. If the Notes are not called, you will be subject to the Underlying Indices' risk of decline.

If you sell the Notes prior to maturity, you may receive less than the principal amount. If the Notes are not automatically called, you should be willing to hold the Notes until maturity. If you are able to sell the Notes in the secondary market prior to maturity, you may have to sell them for a loss relative to the principal amount, even if the levels of the Underlying Indices are above their respective Downside Thresholds. In addition, you will not receive the benefit of any contingent repayment of principal associated with the Downside Thresholds if you sell the Notes before the maturity date. The potential returns described in this document assume that the Notes, which are not designed to be short-term trading instruments, are held to maturity.

Your return on the Notes may be lower than the return on a conventional debt security of comparable maturity. The ...return that you will receive on the Notes, which could be negative, may be less than the return you could earn on other investments. Your investment may not reflect the full opportunity cost to you when you take into account factors that affect the time value of money, such as inflation.

Your return on the Notes will not reflect dividends on the equity securities composing the Underlying Indices. The return on the Notes will not reflect the return you would realize if you actually owned the equity securities "composing the Underlying Indices and received the dividends paid on those equity securities. The Final Levels of

- both Underlying Indices and received the dividends paid on those equity securities. The Final Levels of take into consideration the value of those dividends.
- "If the levels of the Underlying Indices change, the market value of the Notes may not change in the same manner. Owning the Notes is not the same as owning the securities composing the Underlying Indices. Accordingly, changes in the levels of the Underlying Indices may not result in a comparable change of the market value of the Notes. If the

levels of the Underlying Indices on any trading day increase above their respective Initial Levels or Coupon Barriers, the value of the Notes may not increase in a comparable manner, if at all. It is possible for the levels of the Underlying Indices to increase while the value of the Notes declines.

The determination of the payments on the Notes, and whether they are subject to an automatic call, does not take into account all developments in the levels of the Underlying Indices. Changes in the levels of the Underlying Indices during the periods between each Coupon Observation Date may not be reflected in the determination as to whether the Contingent Coupon is payable to you on any Coupon Payment Date or whether the Notes are subject to an automatic call, or the calculation of the amount payable, if any, at maturity. The calculation agent will determine ...whether (i) the Contingent Coupon is payable to you on any quarterly Coupon Payment Date or (ii) the Notes are automatically called on any quarterly Call Observation Date by observing only the closing levels of the Underlying Indices on each Coupon Observation Date. The calculation agent will calculate the payment at maturity by comparing only the closing level of the Least Performing Underlying Index on the Final Valuation Date relative to its Initial Level. No other levels will be taken into account. As a result, you may lose some or all of your principal amount even if the level of the Least Performing Underlying Index has risen at certain times during the term of the Notes before falling to a level below its Downside Threshold on the Final Valuation Date.

The Notes are not designed to be short-term trading instruments. The price at which you will be able to sell the Notes to us or our affiliates prior to maturity, if at all, may be at a substantial discount from the principal amount of the ...Notes, even in cases where the closing levels of the Underlying Indices have appreciated since the trade date. In addition, you will not receive the benefit of any contingent repayment of principal associated with the Downside Thresholds if you sell the Notes before the maturity date. The potential returns described in this document assume that the Notes, which are not designed to be short-term trading instruments, are held to maturity.

You must rely on your own evaluation of the merits of an investment linked to the Underlying Indices. In the ordinary course of their business, our affiliates, or UBS or its affiliates, may have expressed views on expected "movements in each of the Underlying Indices or the securities included in the Underlying Indices, and may do so in the future. These views or reports may be communicated to our respective clients and clients of our respective affiliates. However, these views are subject to change from time to time. Moreover, other

professionals who transact business in markets relating to either Underlying Index, may at any time have significantly different views from those of ours, and those of UBS and its affiliates. For these reasons, you are encouraged to derive information concerning the Underlying Indices from multiple sources, and you should not rely solely on views expressed by us, UBS, or our respective affiliates.

Your return on the Notes is not linked to a basket consisting of the Underlying Indices. Rather, it will be contingent upon the performance of each individual Underlying Index. Unlike an instrument with a return linked to a basket of indices or other underlying assets, in which risk is mitigated and diversified among all of the components of the basket, you will be exposed equally to the risks related to both of the Underlying Indices. Poor performance by either one of the Underlying Indices over the term of the Notes may negatively affect your return and will not be offset or ..mitigated by a positive performance by the other Underlying Index. For the Notes to be automatically called or to receive any Contingent Coupon payment or contingent repayment of principal at maturity from us, both Underlying Indices must close above their Initial Levels, Coupon Barriers and Downside Thresholds, respectively, on the applicable Coupon Observation Date. In addition, if not called prior to maturity, you may incur a loss proportionate to the negative return of the Least Performing Underlying Index. Accordingly, your investment is subject to the market risk of each Underlying Index, which results in a higher risk of your not receiving Contingent Coupon payments and incurring a loss at maturity.

Because the Notes are linked to the individual performance of more than one Underlying Index, it is more likely that one of the Underlying Indices will decrease in value below its Coupon Barrier and its Downside Threshold, increasing the probability that you will not receive the Contingent Coupons and that you will lose some or all of your initial investment. The risk that you will not receive the Contingent Coupons and that you will lose some or all of your initial investment in the Notes is greater if you invest in the Notes as opposed to securities that are linked to the performance of a single Underlying Index if their terms are otherwise substantially similar. With a greater total ...number of Underlying Indices, it is more likely that an Underlying Index will be below its Coupon Barrier or Downside Threshold on a Coupon Observation Date or the Final Valuation Date, and therefore it is more likely that you will not receive the Contingent Coupons and that at maturity you will receive an amount in cash which is worth less than your principal amount. In addition, the performances of a pair of Underlying Indices may be positively or negatively correlated, or may not be correlated at all. If the Underlying Indices are not correlated to each other or are negatively correlated, there is a greater potential for one of those Underlying Indices to close below its Coupon Barrier or Downside Threshold or on the Final Valuation Date, respectively, and therefore the risk of missing a Contingent Coupon payment and that you will lose a portion of your principal at maturity.

It is impossible to predict what the correlations between the Underlying Indices will be over the term of the Notes. The Underlying Indices represent different equity markets and these different equity markets may not perform similarly over the term of the Notes. Although the correlation of the Underlying Indices' performance may change over the term of the Notes, the Contingent Coupon Rate is determined, in part, based on the Underlying Indices' performance calculated using our internal models at the time when the terms of the Notes are determined. As stated earlier, a higher Contingent Coupon Rate is generally associated with lower correlation of the Underlying Indices, which reflects a greater potential for missed Contingent Coupons and for a loss on your investment at maturity. See "Correlation of the Underlying Indices" below.

Risks Relating to Liquidity and Secondary Market Issues

Secondary trading in the Notes may be limited. The Notes will not be listed on any securities exchange. RBCCM intends to offer to purchase the Notes in the secondary market, but is not required to do so. Even if there is a "secondary market, it may not provide enough liquidity to allow you to trade or sell the Notes easily. Because other dealers are not likely to make a secondary market for the Notes, the price at which you may be able to trade your Notes is likely to depend on the price, if any, at which RBCCM is willing to buy the Notes.

"The terms of the Notes at issuance and their market value prior to maturity will be influenced by many unpredictable factors. Many economic and market factors will influence the terms of the Notes at issuance and their value prior to maturity or an automatic call. These factors are similar in some ways to those that could affect the value of a combination of instruments that might be used to replicate the payments on the Notes, including a combination of a bond with one or more options or other derivative instruments. For the market value of the Notes, we expect that, generally, the levels of the Underlying Indices on any day will affect the value of the Notes more than any other single factor. However, you should not expect the value of the Notes in the secondary market to vary in proportion to

changes in the levels of the Underlying Indices. The value of the Notes will be affected by a number of economic and market factors that may either offset or magnify each other, including:

"the level of the Underlying Indices;

"whether the levels of the Underlying Indices are below their respective Coupon Barriers or the Downside Thresholds; "the actual and expected volatility of the Underlying Indices;

"the expected correlation of the Underlying Indices;

"the time remaining to maturity of the Notes;

"the dividend rates on the securities composing the Underlying Indices;

..interest and yield rates in the market generally, as well as in the markets of the equity securities composing the Underlying Indices;

"a variety of economic, financial, political, regulatory or judicial events;

...the occurrence of certain events with respect to the Underlying Indices that may or may not require an adjustment to the terms of the Notes; and

"our creditworthiness, including actual or anticipated downgrades in our credit ratings.

Some or all of these factors will influence the terms of the Notes at issuance as well as the price you will receive if you choose to sell the Notes prior to maturity. The impact of any of the factors set forth above may enhance or offset some or all of any change resulting from another factor or factors. You may have to sell the Notes at a substantial discount from the principal amount if, for example, the level of one or both of the Underlying Indices is at, or not sufficiently above, its Downside Threshold.

Risks Relating to the Underlying Indices

- Changes that affect an Underlying Index will affect the market value of the Notes and the payments on the Notes. The policies of the applicable index sponsor concerning the calculation of each Underlying Index, additions, deletions or substitutions of the components of that Underlying Index and the manner in which changes affecting those components, such as stock dividends, reorganizations or mergers, may be reflected in the Underlying Index "and, therefore, could affect the amounts payable on the Notes, and the market value of the Notes prior to maturity. The amounts payable on the Notes and their market value could also be affected if the index sponsor changes these policies, for example, by changing the manner in which it calculates the applicable Underlying Index, or if the index sponsor discontinues or suspends calculation or publication of that Underlying Index, in which case it may become difficult to determine the market value of the Notes.
- We have no affiliation with either index sponsor and will not be responsible for any actions taken by an index sponsor. Neither index sponsor is an affiliate of ours or will be involved in the offering of the Notes in any way. Consequently, we have no control of the actions of either index sponsor, including any actions of the type that might
- "impact the value of the Notes. Neither index sponsor has any obligation of any sort with respect to the Notes. Thus, no index sponsor has any obligation to take your interests into consideration for any reason, including in taking any actions that might affect the value of the Notes. None of our proceeds from the issuance of the Notes will be delivered to either index sponsor.
- The historical performance of the Underlying Indices should not be taken as an indication of their future performance. The levels of the Underlying Indices will determine the amount to be paid on the Notes. The historical performance of each Underlying Index does not give an indication of its future performance. As a result, it is ...impossible to predict whether the level of the Underlying Indices will rise or fall during the term of the Notes. The
- level of each Underlying Index will be influenced by complex and interrelated political, economic, financial and other factors. The level of each Underlying Index may decrease such that you may not receive any return on your investment or any Contingent Coupon payments. There can be no assurance that the level of each Underlying Index will not decrease so that at maturity you will not lose some or all of your investment.
- An Investment in the Securities Is Subject to Risks Associated with Non-U.S. Securities Markets The securities included in the Underlying have been issued by non-U.S. companies. An investment in securities linked to the value of non-U.S. equity securities involves particular risks. Non-U.S. securities markets may be more volatile than U.S. securities markets, and market developments may affect non-U.S. securities markets differently from the U.S. ...securities markets. Direct or indirect government intervention to stabilize these non-U.S. securities markets, as well as cross shareholdings among non-U.S. companies, may affect trading prices and volumes in those markets. Also, there is generally less publicly available information in the U.S. about non-U.S. companies than about those U.S. companies that are subject to the reporting requirements of the SEC, and non-U.S. companies are subject to accounting, disclosure, auditing and financial reporting standards and requirements that differ from those applicable
- to U.S. reporting companies.

Prices of securities in non-U.S. countries are subject to political, economic, financial and social factors that may be unique to the particular countries. These factors, which could negatively affect the non-U.S. securities markets, include the possibility of recent or future changes in the economic and fiscal policies of non-U.S. governments, the possible imposition of, or changes in, currency exchange laws or other non-U.S. laws or restrictions applicable to non-U.S. companies or investments in non-U.S. equity securities, the possibility of fluctuations in the rate of exchange between currencies, the possibility of outbreaks of hostility and political instability and the possibility of natural disaster or adverse public health developments in the relevant region. Moreover, the economies of certain foreign countries may differ favorably or unfavorably from the U.S. economy in important respects, such as growth of gross national product, rate of inflation, trade surpluses or deficits, capital reinvestment, resources and self-sufficiency.

As a Holder of the Securities, You Will Not Have Direct Exposure to Fluctuations in the Exchange Rate Related to the Underlying — The value of the Securities will not be adjusted for exchange rate fluctuations between the U.S.

"dollar and the euro, even though any currency fluctuations could affect the performance of the Underlying. Therefore, if the euro appreciates or depreciates relative to the U.S. dollar over the term of the Securities, you will not receive any additional payment or incur any reduction in any payment on the Securities. Risks Relating to Hedging Activities and Conflicts of Interest

We, UBS or our respective affiliates may have adverse economic interests to the holders of the Notes. RBCCM, UBS and our respective affiliates trade the securities represented by the Underlying Indices, and other financial instruments related to the Underlying Indices, on a regular basis, for their accounts and for other accounts under our or their management. UBS, RBCCM and these affiliates may also issue or underwrite or assist unaffiliated entities in the issuance or underwriting of other securities or financial instruments that relate to the Underlying Indices. To the extent that we, UBS or any of our respective affiliates serves as issuer, agent or underwriter for such securities or financial instruments, our or their interests with respect to such products may be adverse to those of the holders of the Notes. Any of these trading activities could potentially affect the performance of the Underlying Indices and, accordingly, could affect the value of the Notes, and the amounts, if any, payable on the Notes. We, UBS or our respective affiliates may currently or from time to time engage in business with the issuers of the securities represented by the Underlying Indices, including extending loans to, or making equity investments in, or providing advisory services to them, including merger and acquisition advisory services. In the course of this business, we, UBS or our respective affiliates may acquire non-public information about these companies, and we will not disclose any such information to you. None of us, UBS or our respective affiliates makes any representation or warranty to any purchaser of the Notes with respect to any matters whatsoever relating to our business with the issuer of any security included in the Underlying Indices or future price movements of any such security. Additionally, we, UBS or our respective affiliates may serve as issuer, agent or underwriter for additional issuances of securities with returns linked or related to changes in the level of one or more of the Underlying Indices. By introducing competing products into the marketplace in this manner, we could adversely affect the value of the Notes. We may hedge our obligations under the Notes through certain affiliates, who would expect to make a profit on such hedge. We or our affiliates may adjust these hedges by, among other things, purchasing or selling those assets at any time, including around the time of each Coupon Observation Date, which could have an impact on the return of the Notes. Because hedging our obligations entails risk and may be

influenced by market forces beyond our or our affiliates' control, such hedging may result in a profit that is more or less than expected, or it may result in a loss.

The calculation agent will have significant discretion with respect to the Notes, which may be exercised in a manner that is adverse to your interests. Our wholly-owned subsidiary, RBCCM, will act as the calculation agent. The calculation agent will determine, among other things, the closing levels of the Underlying Indices on each Coupon Observation Date, if any; whether the Notes are subject to an automatic call; the Final Level for each Underlying "Index; the Underlying Index Return for each Underlying Index; and the amounts, if any, that we will pay to you on the Notes. The calculation agent will also be responsible for determining whether a market disruption event has occurred. The calculation agent may exercise its discretion in a manner which reduces your return on the Notes. Since these determinations by the calculation agent may affect the payments on the Notes, the calculation agent may have a conflict of interest if it needs to make a determination of this kind.

Market disruptions may adversely affect your return. The calculation agent may, in its sole discretion, determine that the markets have been affected in a manner that prevents it from properly determining the closing level of one or both of the Underlying Indices on any Coupon Observation Date or calculating the Underlying Index Return for each ...Underlying Index and the amount, if any, that we are required to pay you. These events may include disruptions or suspensions of trading in the markets as a whole. If the calculation agent, in its sole discretion, determines that any of

- suspensions of trading in the markets as a whole. If the calculation agent, in its sole discretion, determines that any of these events prevents us or any of our affiliates from properly hedging our obligations under the Notes, it is possible that one or more of the Coupon Observation Dates and the maturity date will be postponed, and your return will be adversely affected. See "General Terms of the Notes—Market Disruption Events."
- Non-U.S. investors may be subject to certain additional risks. This document contains a general description of certain ...U.S. tax considerations relating to the Notes. In the event you are a non-U.S. investor, you should consult your tax advisors as to the consequences, under the tax laws of the country where you are a resident for tax purposes, of acquiring, holding and disposing of the Notes and receiving the payments that might be due under the Notes. For a discussion of the Canadian federal income tax consequences of investing in the Notes, please see the section entitled "Tax Consequences—Canadian Taxation" in the accompanying prospectus. If you are not a Non-resident Holder (as defined in the section titled "Tax Consequences—Canadian Taxation" in the accompanying prospectus) or if you acquire the Notes in the secondary market, you should consult your tax advisors as to the consequences of acquiring, holding and disposing of the Notes and receiving the payments that may be due under the Notes.

Significant aspects of the income tax treatment of an investment in the Notes may be uncertain. The tax treatment of ...an investment in the Notes is uncertain. We do not plan to request a ruling from the Internal Revenue Service or the

Canada Revenue Agency regarding the tax treatment of an investment in the Notes, and the Internal Revenue Service, the Canada Revenue Agency or a court may not agree with the tax treatment described in this document. The Internal Revenue Service has issued a notice indicating that it and the Treasury Department are actively considering whether, among other issues, a holder should be required to accrue ordinary income on a current basis irrespective of any Contingent Coupons. The outcome of this process is uncertain and could apply on a retroactive basis.

Please read carefully the sections entitled "U.S. Federal Income Tax Consequences" in this document, the section entitled "Tax Consequences" in the accompanying prospectus and the section entitled "Certain Income Tax Consequences" in the accompanying prospectus supplement. You should consult your tax advisor about your own tax situation.

Use of Proceeds and Hedging

The net proceeds we receive from the sale of the Notes will be used for general corporate purposes and, in part, by us or by one or more of our affiliates in connection with hedging our obligations under the Notes. The original issue price of the Notes includes the estimated cost of hedging our obligations under the Notes.

In anticipation of the sale of the Notes, we expect to enter into hedging transactions with one or more of our affiliates, involving the Underlying Indices or the securities composing the Underlying Indices, and/or related listed and/or over-the-counter derivative instruments prior to or on the trade date. From time to time, including around the time of each Coupon Observation Date and the maturity date, we and our respective affiliates may enter into additional hedging transactions or unwind those that we or they have entered into. In this regard, we and our respective affiliates may:

"acquire or dispose of investments relating to the Underlying Indices;

..acquire or dispose of long or short positions in listed or over-the-counter derivative instruments related to the Underlying Indices; or

"any combination of the above two.

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

We and our affiliates may close out our or their hedges at any time during the term of the Notes, including on or before any Coupon Observation Date. That step may, for example, involve sales or purchases of over-the-counter derivative instruments linked to the Underlying Indices.

Hypothetical Examples

Hypothetical terms only. Actual terms may vary. See the cover page for actual offering terms. The following examples are hypothetical and provided for illustrative purposes only. They do not purport to be representative of every possible scenario concerning increases or decreases in the level of either Underlying Index relative to its Initial Level. We cannot predict the Final Level of any Underlying Index. You should not take these examples as an indication or assurance of the expected performance of either Underlying Index. The numbers appearing in the examples and tables below have been rounded for ease of analysis. The following examples and tables illustrate the Payment at Maturity or upon an automatic call per Note on a hypothetical offering of the Notes, based on the following hypothetical assumptions (actual Initial Levels, Coupon Barriers and Downside Thresholds will be set forth in the final pricing supplement):

Principal Amount:		\$10.00			
Term:		Approximately one year			
Contingent Coupon Rate:		6.30% per annum (or 1.575% per quarter)			
Contingent Coupon*:		\$0.1575 per quarter			
Coupon Observation Dates	:	Quarterly			
Call Observation Dates:		Quarterly			
Hypothetical Initial Levels	**:				
Underlying Index A:		2,000.00			
Underlying Index B:		1,000.00			
Hypothetical Coupon Barri	iers**:				
Underlying Index A:		1,200.00 (which is 60% of its Initial Lev	el)		
Underlying Index B:		600.00 (which is 60% of its Initial Level	)		
Hypothetical Downside Th	resholds**:				
Underlying Index A:		1,200.00 (which is 60% of its Initial Lev	el)		
Underlying Index B:		600.00 (which is 60% of its Initial Level)			
* Contingent Coupon payn	nents, if pay	able, will be paid in arrears in equal quar	terly installments during the term of		
the Notes unless earlier cal	led.				
** Will not be the actual Ir	nitial Level,	Coupon Barrier or Downside Threshold a	applicable to the Notes. The actual		
Initial Level, Coupon Barri	ier and Dow	nside Threshold of each Underlying Inde	x will be set forth on the cover page of		
the pricing supplement rela	ting to this	offering.			
Scenario #1: Notes Are Ca	lled on the S	Second Coupon Observation Date.			
Date	Closing Le	vel	Payment (per Note)		
First Coupon Observation	Underlying	g Index A: 2,100.00 (at or above Initial	\$0.1575 (Contingent Coupon – Notes		
Date	Level)		are not called)		
	Underlying Index B: 900.00 (at or above Coupon				
	Barrier; be	low Initial Level)			
Second Coupon	Underlying Index A: 2,200.00 (at or above Initial		¢10,1575 (acttlement amount)		
Observation Date	Level)		\$10.1575 (settlement amount)		
	Underlying	g Index B: 1,200.00 (at or above Initial			
	Level)				
	Total Payn	nent:	\$10.315 (3.15% return)		
C	.1				

Since the Notes are called on the second Coupon Observation Date, we will pay you on the Call Settlement Date a total of \$10.1575 per Note, reflecting your principal amount plus the applicable Contingent Coupon. When added to the Contingent Coupon payment of \$0.1575 received in respect of the prior Coupon Observation Date, we will have paid you a total of \$10.315 per Note, for a 3.15% total return on the Notes. No further amount will be owed to you under the Notes.

Scenario #2: Notes Are NOT Called <u>and</u> the Final Level of Both Underlying Indices Are at or Above Their Respective Downside Thresholds.

Date	Closing Level	Payment (per Note)
First Coupon Observation Date	Underlying Index A: 1,500.00 (at or above Coupon Barrier; below Initial Level)	\$0.1575 (Contingent Coupon – Notes are not called)
	Underlying Index B: 800.00 (at or above Coupon Barrier; below Initial Level)	
Second Coupon Observation Date	Underlying Index A: 1,100.00 (below Coupon Barrier)	\$0.00 (Notes are not called)
	Underlying Index B: 900.00 (at or above Coupon Barrier; below Initial Level)	
Third Coupon Observation Date	Underlying Index A: 1,500.00 (at or above Coupon Barrier; below Initial Level)	\$0.1575 (Contingent Coupon – Notes are not called)
	Underlying Index B: 1,100.00 (at or above Initial Level)	
Final Valuation Date	Underlying Index A: 1,600.00 (at or above Downside Threshold and Coupon Barrier; below Initial Level)	\$10.1575 (Payment at Maturity)
	Underlying Index B: 1,100.00 (at or above Downside Threshold, Coupon Barrier and Initial Level)	
	Total Payment:	\$10.4725 (4.725% return)

At maturity, we will pay you a total of \$10.1575 per Note, reflecting your principal amount plus the applicable Contingent Coupon. When added to the Contingent Coupon payments of \$0.315 received in respect of prior Coupon Observation Dates on which Contingent Coupons were paid, we will have paid you a total of \$10.4725 per Note, for a 4.725% total return on the Notes.

Scenario #3: Notes Are No	OT Called and the Final Level of one Underlying Index	Is Below its Downside Threshold
Date	Closing Level	Payment (per Note)
First Coupon Observation Date	Underlying Index A: 1,600.00 (at or above Coupon Barrier; below Initial Level)	\$0.1575 (Contingent Coupon – Notes are not called)
	Underlying Index B: 1,200.00 (at or above Initial Level)	
Second Coupon Observation Date	Underlying Index A: 1,500.00 (at or above Coupon Barrier; below Initial Level)	\$0.1575 (Contingent Coupon – Notes are not called)
	Underlying Index B: 800.00 (at or above Coupon Barrier; below Initial Level)	
Third Coupon Observation Date	Underlying Index A: 1,500.00 (at or above Coupon Barrier; below Initial Level)	\$0.00 (Notes are not called)
	Underlying Index B: 500.00 (below Coupon Barrier)	
Final Valuation Date	Underlying Index A: 800.00 (below Downside Threshold and Coupon Barrier)	\$10.00 + [\$10.00 × Underlying Index Return] = \$10.00 + [\$10.00 × -60%] = \$10.00 - \$6.00 = \$4.00 (Payment at Maturity)
	Underlying Index B: 1,300.00 (at or above Initial Level)	
	Total Payment:	\$4.315 (-56.85% return)
Since the Notes are not cal	lled and the Final Level of the Least Performing Under	lying Index is below its Downside

Since the Notes are not called and the Final Level of the Least Performing Underlying Index is below its Downside Threshold, we will pay you at maturity \$4.00 per Note. When added to the Contingent Coupon payments of \$0.315 received in respect of prior Coupon Observation Dates, we will have paid you \$4.315 per Note, for a loss on the Notes of 56.85%.

The Notes differ from ordinary debt securities in that, among other features, we are not necessarily obligated to repay the full amount of your initial investment. If the Notes are not called on any Call Observation Date, you may lose some or all of your initial investment. Specifically, if the Notes are not called and the Final Level of one or both of the Underlying Indices is less than its Downside Threshold, you will lose 1% (or a fraction thereof) of your principal amount for each 1% (or a fraction thereof) that the Underlying Index Return of the Least Performing Underlying Index is less than zero.

Any payment on the Notes, including payments in respect of an automatic call, Contingent Coupon or any repayment of principal provided at maturity, is dependent on our ability to satisfy our obligations when they come due. If we are unable to meet our obligations, you may not receive any amounts due to you under the Notes.

What Are the Tax Consequences of the Notes?

U.S. Federal Income Tax Consequences

The following is a general description of the material U.S. tax considerations relating to the Notes. It does not purport to be a complete analysis of all tax considerations relating to the Notes. Prospective purchasers of the Notes 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 U.S. of acquiring, holding and disposing of the Notes and receiving payments under the Notes. 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.

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement. It applies only to those holders who are not excluded from the discussion of U.S. federal income taxation in the accompanying prospectus. It does not address the tax consequences applicable to any holders under Section 451(b) of the Internal Revenue Code. This discussion applies only to U.S. holders and non-U.S. holders that will purchase the Notes upon original issuance and will hold the Notes as capital assets for U.S. federal income tax purposes. In addition, the discussion below assumes that an investor in the Notes will be subject to a significant risk that it will lose a significant amount of its investment in the Notes.

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

NO STATUTORY, JUDICIAL OR ADMINISTRATIVE AUTHORITY DIRECTLY DISCUSSES HOW THE NOTES 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 NOTES 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 NOTES, INCLUDING THE APPLICATION OF STATE, LOCAL OR OTHER TAX LAWS AND THE POSSIBLE EFFECTS OF CHANGES IN FEDERAL OR OTHER TAX LAWS.

We will not attempt to ascertain whether the issuer of any of the component stocks included in any Underlying Index would be treated as a "passive foreign investment company" within the meaning of Section 1297 of the Internal Revenue Code or a "U.S. real property holding corporation" within the meaning of Section 897 of the Internal Revenue Code. If the issuer of one or more of such stocks were so treated, certain adverse U.S. federal income tax consequences could possibly apply. You should refer to any available information filed with the SEC and other authorities by the issuers of the component stock included in any Underlying Index and consult your tax advisor regarding the possible consequences to you in this regard, if any.

In the opinion of our counsel, Morrison & Foerster LLP, it would generally be reasonable to treat a Note with terms described in this document as a callable pre-paid cash-settled derivative contract linked to the Underlying Index for U.S. federal income tax purposes, and the terms of the Notes 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 Notes for all tax purposes in accordance with such characterization. If the Notes are so treated, a U.S. holder should generally recognize capital gain or loss upon the sale or maturity of the Notes in an amount equal to the difference between the amount a holder receives at such time and the holder's tax basis in the Notes. Capital gain recognized by an individual U.S. holder is generally taxed at preferential rates where the property is held for more than one year and 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. The following discussion assumes that the treatment described in this paragraph is proper and will be respected. If the Notes are treated as described above, a U.S. holder should generally recognize capital gain or loss upon the call, sale or maturity of the Notes in an amount equal to the difference between the amount a holder receives at such time and the holder's tax basis in the Notes. In general, a U.S. holder's tax basis in the Notes will be equal to the price the holder paid for the Notes. The capital loss treatment of any loss recognized upon the sale, exchange or maturity of the Notes, could result in adverse tax consequences to a holder because the deductibility of capital losses is subject to limitations.

Alternative Treatments. Alternative tax treatments of the Notes are also possible and the Internal Revenue Service might assert that a treatment other than that described above is more appropriate. For example, it would also be

possible to treat the Notes, and the Internal Revenue Service might assert that the Notes should be treated, as a single debt instrument.

Because of the absence of authority regarding the appropriate tax characterization of the Notes, it is also possible that the Internal Revenue Service could seek to characterize the securities in a manner that results in other 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 or maturity of the securities should be treated as ordinary gain or loss.

Because the Notes have a term that exceeds one year, such a debt instrument would be subject to the special tax rules governing contingent payment debt instruments. If the Notes are so treated, a holder would generally be required to accrue interest income over the term of the Notes based upon the yield at which we would issue a non-contingent fixed-rate debt instrument with other terms and conditions similar to the Notes. In addition, any gain a holder might recognize upon the call, sale or maturity of the Notes would be ordinary income and any loss recognized by a holder at such time would generally be ordinary loss to the extent of interest that same holder included in income in the current or previous taxable years in respect of the Notes, and thereafter, would be capital loss.

Because of the absence of authority regarding the appropriate tax characterization of the Notes, it is also possible that the Internal Revenue Service could seek to characterize the Notes in a manner that results in other 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 call, sale or maturity of the Notes 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 Notes. According to the notice, the Internal Revenue Service and the U.S. Treasury Department are actively considering whether the holder of an instrument similar to the Notes 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 Notes 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 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 special "constructive ownership rules" of Section 1260 of the Internal Revenue 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 Notes 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 Notes and proceeds from the sale of the Notes 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 Notes. A non-U.S. holder is a beneficial owner of the Notes 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 discussed below, a non-U.S. holder will generally not be subject to U.S. federal income or withholding tax on any gain upon the call, sale or maturity of the Notes, provided that (i) the holder complies with any applicable certification requirements (which certification may generally be made on a Form W-8BEN or Form W-8BEN-E, or a substitute or successor form), (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 U.S. for 183 days or more during the taxable year of the call, sale or maturity of the Notes. 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 trade or business in the U.S., 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.

As discussed above, alternative characterizations of the Notes 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 Notes to become subject to withholding tax in addition to the withholding tax described above, 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 Notes should be subject to withholding tax. Prospective investors should consult their own tax advisors in this regard.

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, 2021. Based on our determination that the Notes are not delta-one instruments, non-U.S. holders should not be subject to withholding on dividend equivalent payments, if any, under the Notes. However, it is possible that the Notes could be treated as deemed reissued for U.S. federal income tax purposes upon the occurrence of certain events affecting the Underlying Indices or the Notes (for example, upon an Underlying Index rebalancing), and following such occurrence the Notes 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 Underlying Indices or the Notes should consult their tax advisors as to the application of the dividend equivalent withholding tax in the context of the Notes 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.

Individual holders that own "specified foreign financial assets" may be required to include certain information with respect to such assets with their U.S. federal income tax return. You are urged to consult your own tax advisor regarding such requirements with respect to the Notes.

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 original issue discount), dividends, or other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property 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 behalf of a holder), 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. financial account holders, including certain account holders that are foreign entities with U.S. owners, with such institution, or otherwise complies with the legislation. In addition, the Notes may constitute a "financial account" for these purposes and, thus, be subject to information reporting requirements pursuant to FATCA. FATCA also generally imposes a withholding tax of 30% on Withholdable Payments made to a non-financial foreign entity unless such 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. Under certain circumstances, a holder may be eligible for refunds or credits of such taxes.

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 Notes will only apply to payments made after December 31, 2018. If we determine withholding is appropriate with respect to the Notes, 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 Notes will be significantly less than what you would have otherwise received. 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. Prospective investors are urged to consult with their own tax advisors regarding the possible implications of FATCA on their investment in the Notes.

Canadian Federal Income Tax Consequences

For a discussion of the material Canadian federal income tax consequences relating to an investment in the Notes, please see the section entitled "Tax Consequences—Canadian Taxation" in the accompanying prospectus, which you should carefully review prior to investing in the Notes.

### Information About the Underlying Indices

We have derived all information contained in this document regarding each of the Underlying Indices, including, without limitation, its make up, method of calculation, and changes in its components, from publicly available sources. The information reflects the policies of, and is subject to change by, the applicable index sponsor. Each index sponsor, which owns the copyright and all other rights to the applicable Underlying Index, has no obligation to continue to publish, and may discontinue publication of, that Underlying Index. The consequences of an index sponsor discontinuing publication of the applicable Underlying Index are discussed below under the heading "General Terms of the Notes—Discontinuation of an Underlying Index; Alteration of Method of Calculation." None of us, UBS or RBCCM accepts any responsibility for the calculation, maintenance or publication of any Underlying Index or any successor index.

## The S&P 500® Index

The SPX is intended to provide an indication of the pattern of common stock price movement in the large capitalization segment of the U.S. equity market. The calculation of the level of the SPX is based on the relative value of the aggregate market value of the common stocks of 500 companies as of a particular time compared to the aggregate average market value of the common stocks of 500 similar companies during the base period of the years 1941 through 1943.

The index sponsor calculates the SPX by reference to the prices of the constituent stocks of the SPX without taking account of the value of dividends paid on those stocks. As a result, the return on the Notes will not reflect the return you would realize if you actually owned the SPX constituent stocks and received the dividends paid on those stocks. Computation of the SPX

While the index sponsor currently employs the following methodology to calculate the SPX, no assurance can be given that the index sponsor will not modify or change this methodology in a manner that may affect the Payment at Maturity.

Historically, the market value of any component stock of the SPX was calculated as the product of the market price per share and the number of then outstanding shares of such component stock. In March 2005, the index sponsor began shifting the SPX halfway from a market capitalization weighted formula to a float-adjusted formula, before moving the SPX to full float adjustment on September 16, 2005. The index sponsor's criteria for selecting stocks for the SPX did not change with the shift to float adjustment. However, the adjustment affects each company's weight in the SPX.

Under float adjustment, the share counts used in calculating the SPX reflect only those shares that are available to investors, not all of a company's outstanding shares. Float adjustment excludes shares that are closely held by control groups, other publicly traded companies or government agencies.

In September 2012, all shareholdings representing more than 5% of a stock's outstanding shares, other than holdings by "block owners," were removed from the float for purposes of calculating the SPX. Generally, these "control holders" will include officers and directors, private equity, venture capital and special equity firms, other publicly traded companies that hold shares for control, strategic partners, holders of restricted shares, ESOPs, employee and family trusts, foundations associated with the company, holders of unlisted share classes of stock, government entities at all levels (other than government retirement/pension funds) and any individual person who controls a 5% or greater stake in a company as reported in regulatory filings. However, holdings by block owners, such as depositary banks, pension funds, mutual funds and ETF providers, 401(k) plans of the company, government retirement/pension funds, investment funds of insurance companies, asset managers and investment funds, independent foundations and savings and investment plans, will ordinarily be considered part of the float.

Treasury stock, stock options, restricted shares, equity participation units, warrants, preferred stock, convertible stock, and rights are not part of the float. Shares held in a trust to allow investors in countries outside the country of domicile, such as depositary shares and Canadian exchangeable shares are normally part of the float unless those shares form a control block.

For each stock, an investable weight factor ("IWF") is calculated by dividing the available float shares by the total shares outstanding. Available float shares are defined as the total shares outstanding less shares held by control holders. This calculation is subject to a 5% minimum threshold for control blocks. For example, if a company's officers and directors hold 3% of the company's shares, and no other control group holds 5% of the company's shares,

the index sponsor would assign that company an IWF of 1.00, as no control group meets the 5% threshold. However, if a company's officers and directors hold 3% of the company's shares and another control group holds 20% of the company's shares, the index sponsor would assign an IWF of 0.77, reflecting the fact that 23% of the company's outstanding shares are considered to be held for control. As of July 31, 2017, companies with multiple share class lines are no longer eligible for inclusion in the SPX. Constituents of the SPX prior to July 31, 2017 with multiple share class lines will be grandfathered in and continue to be included in the SPX. If a constituent company of the SPX reorganizes into a multiple share class line structure, that company will remain in the SPX at the discretion of the S&P Index Committee in order to minimize turnover

The SPX is calculated using a base-weighted aggregate methodology. The level of the SPX reflects the total market value of all 500 component stocks relative to the base period of the years 1941 through 1943. An indexed number is used to represent the results of this calculation in order to make the level easier to work with and track over time. The actual total market value of the component stocks during the base period of the years 1941 through 1943 has been set to an indexed level of 10. This is often indicated by the notation 1941- 43 = 10. In practice, the daily calculation of the SPX is computed by dividing the total market value of the component stocks by the "index divisor." By itself, the index divisor is an arbitrary number. However, in the context of the calculation of the SPX, it serves as a link to the original base period level of the SPX. The index divisor keeps the SPX comparable over time and is the manipulation point for all adjustments to the SPX, which is index maintenance.

Index Maintenance

Index maintenance includes monitoring and completing the adjustments for company additions and deletions, share changes, stock splits, stock dividends, and stock price adjustments due to company restructuring or spinoffs. Some corporate actions, such as stock splits and stock dividends, require changes in the common shares outstanding and the stock prices of the companies in the SPX, and do not require index divisor adjustments.

To prevent the level of the SPX from changing due to corporate actions, corporate actions which affect the total market value of the SPX require an index divisor adjustment. By adjusting the index divisor for the change in market value, the level of the SPX remains constant and does not reflect the corporate actions of individual companies in the SPX. Index divisor adjustments are made after the close of trading and after the calculation of the index closing level. Changes in a company's shares outstanding and IWF due to its acquisition of another public company are made as soon as reasonably possible. At S&P's discretion, de minimis merger and acquisition share changes are accumulated and implemented with the quarterly share rebalancing.

All other changes of less than 5% are accumulated and made quarterly on the third Friday of March, June, September, and December.

Changes in a company's total shares outstanding of 5% or more due to public offerings are made as soon as reasonably possible. Other changes of 5% or more (for example, due to tender offers, Dutch auctions, voluntary exchange offers, company stock repurchases, private placements, acquisitions of private companies or non-index companies that do not trade on a major exchange, redemptions, exercise of options, warrants, conversion of preferred stock, notes, debt, equity participations, at-the-market stock offerings or other recapitalizations) are made weekly, and are generally announced on Fridays for implementation after the close of trading the following Friday (one week later). If a 5% or more share change causes a company's IWF to change by five percentage points or more, the IWF is updated at the same time as the share change. IWF changes resulting from partial tender offers are considered on a case-by-case basis.

### License Agreement

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S&P DOW JONES INDICES DO NOT GUARANTEE THE ADEQUACY, ACCURACY, TIMELINESS AND/OR THE COMPLETENESS OF THE SPX OR ANY DATA RELATED THERETO OR ANY COMMUNICATION, INCLUDING BUT NOT LIMITED TO, ORAL OR WRITTEN COMMUNICATION (INCLUDING ELECTRONIC COMMUNICATIONS) WITH RESPECT THERETO. S&P DOW JONES INDICES SHALL NOT BE SUBJECT TO ANY DAMAGES OR LIABILITY FOR ANY ERRORS, OMISSIONS, OR DELAYS THEREIN. S&P DOW JONES INDICES MAKE NO EXPRESS OR IMPLIED WARRANTIES, AND EXPRESSLY DISCLAIMS ALL WARRANTIES, OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OR USE OR AS TO

RESULTS TO BE OBTAINED BY US, HOLDERS OF THE NOTES, OR ANY OTHER PERSON OR ENTITY FROM THE USE OF THE SPX OR WITH RESPECT TO ANY DATA RELATED THERETO. WITHOUT LIMITING ANY OF THE FOREGOING, IN NO EVENT WHATSOEVER SHALL S&P DOW JONES INDICES BE LIABLE FOR ANY INDIRECT, SPECIAL, INCIDENTAL, PUNITIVE, OR CONSEQUENTIAL DAMAGES INCLUDING BUT NOT LIMITED TO, LOSS OF PROFITS, TRADING LOSSES, LOST TIME OR GOODWILL, EVEN IF THEY HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, WHETHER IN CONTRACT, TORT, STRICT LIABILITY, OR OTHERWISE. THERE ARE NO THIRD PARTY BENEFICIARIES OF ANY AGREEMENTS OR ARRANGEMENTS BETWEEN S&P DOW JONES INDICES AND US, OTHER THAN THE LICENSORS OF S&P DOW JONES INDICES.

### Historical Information

The following table sets forth the quarterly high, low and period-end closing levels of the SPX, as reported by Bloomberg L.P. The historical performance of the SPX should not be taken as an indication of future performance. We cannot give you assurance that the performance of the SPX will result in the return of any of your initial investment.

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Quarter Begin	Quarter End	Quarterly Closing High	Quarterly Closing Low	Quarterly Period-End Close
1/1/2008	3/31/2008	1,447.16	1,273.37	1,322.70
4/1/2008	6/30/2008	1,426.63	1,278.38	1,280.00
7/1/2008	9/30/2008	1,305.32	1,106.39	1,166.36
10/1/2008	12/31/2008	1,161.06	752.44	903.25
1/1/2009	3/31/2009	934.70	676.53	797.87
4/1/2009	6/30/2009	946.21	811.08	919.32
7/1/2009	9/30/2009	1,071.66	879.13	1,057.08
10/1/2009	12/31/2009	1,127.78	1,025.21	1,115.10
1/1/2010	3/31/2010	1,174.17	1,056.74	1,169.43
4/1/2010	6/30/2010	1,217.28	1,030.71	1,030.71
7/1/2010	9/30/2010	1,148.67	1,022.58	1,141.20
10/1/2010	12/31/2010	1,259.78	1,137.03	1,257.64
1/1/2011	3/31/2011	1,343.01	1,256.88	1,325.83
4/1/2011	6/30/2011	1,363.61	1,265.42	1,320.64
7/1/2011	9/30/2011	1,353.22	1,119.46	1,131.42
10/1/2011	12/31/2011	1,285.09	1,099.23	1,257.60
1/1/2012	3/31/2012	1,416.51	1,277.06	1,408.47
4/1/2012	6/30/2012	1,419.04	1,278.04	1,362.16
7/1/2012	9/30/2012	1,465.77	1,334.76	1,440.67
10/1/2012	12/31/2012	1,461.40	1,353.33	1,426.19
1/1/2013	3/31/2013	1,569.19	1,457.15	1,569.19
4/1/2013	6/30/2013	1,669.16	1,541.61	1,606.28
7/1/2013	9/30/2013	1,725.52	1,614.08	1,681.55
10/1/2013	12/31/2013	1,848.36	1,655.45	1,848.36
1/1/2014	3/31/2014	1,878.04	1,741.89	1,872.34
4/1/2014	6/30/2014	1,962.87	1,815.69	1,960.23
7/1/2014	9/30/2014	2,011.36	1,909.57	1,972.29
10/1/2014	12/31/2014	2,090.57	1,862.49	2,058.90
1/1/2015	3/31/2015	2,117.39	1,992.67	2,067.89
4/1/2015	6/30/2015	2,130.82	2,057.64	2,063.11
7/1/2015	9/30/2015	2,128.28	1,867.61	1,920.03
10/1/2015	12/31/2015	2,109.79	1,923.82	2,043.94
1/1/2016	3/31/2016	2,063.95	1,829.08	2,059.74
4/1/2016	6/30/2016	2,119.12	2,000.54	2,098.86
7/1/2016	9/30/2016	2,190.15	2,088.55	2,168.27
10/1/2016	12/31/2016	2,271.72	2,085.18	2,238.83
1/1/2017	3/31/2017	2,395.96	2,257.83	2,362.72
4/1/2017	6/30/2017	2,453.46	2,328.95	2,423.41
7/1/2017	9/30/2017	2,519.36	2,409.75	2,519.36
10/1/2017	12/31/2017	2,690.16	2,529.12	2,673.61
1/1/2018	3/31/2018	2,872.87	2,581.00	2,640.87
4/1/2018	6/30/2018	2,786.85	2,581.88	2,718.37
7/1/2018	9/30/2018	2,930.75	2,713.22	2,913.98
10/1/2018	10/10/2018*	2,925.51	2,785.68	2,785.68

\* This free writing prospectus includes information for the fourth calendar quarter of 2018 for the period from October 1, 2018 through October 10, 2018. Accordingly, the "Quarterly Closing High," "Quarterly Closing Low" and "Quarterly Period-End Close" data indicated are for this shortened period only and do not reflect complete data for the fourth calendar quarter of 2018.

The graph below illustrates the performance of this Underlying Index from October 10, 2008 to October 10, 2018, assuming an Initial Level of 2,785.68, which was its closing level on October 10, 2018. The solid line represents a hypothetical Coupon Barrier and Downside Threshold of 1,671.41, which is equal to 60.00% of the closing level on October 10, 2018 (rounded to two decimal places). The actual Coupon Barrier and Downside Threshold will be based on the closing level of this Underlying Index on the trade date.

n Coupon Barrier / Downside Threshold = 60% of its Initial Level

## HISTORIC PERFORMANCE IS NOT AN INDICATION OF FUTURE PERFORMANCE

Source: Bloomberg L.P. We have not independently verified the accuracy or completeness of the information obtained from Bloomberg L.P.

## The EURO STOXX 50® Index

All disclosures contained in this document regarding the Underlying, including, without limitation, its make-up, method of calculation, and changes in its components, have been derived from publicly available sources. The information reflects the policies of, and is subject to change by, STOXX Limited, as the sponsor of the Underlying ("STOXX"). STOXX, which owns the copyright and all other rights to the Underlying, has no obligation to continue to publish, and may discontinue publication of, the Underlying. Neither we nor RBCCM accepts any responsibility for the calculation, maintenance or publication of the Underlying or any successor index.

The Underlying was created by STOXX Limited, a subsidiary of Deutsche Börse AG. Publication of the Underlying began in February 1998, based on an initial index level of 1,000 at December 31, 1991. Additional Information about the Underlying, including its calculation methodology, may be found on the STOXX Limited website: www.stoxx.com. Information contained in that website is not incorporated by reference in, and should not be

considered a part of, this document.

Composition and Maintenance

The Underlying is composed of 50 component stocks of market sector leaders from within the 19 EURO STOXX<sup>®</sup> Supersector indices, which represent the Eurozone portion of the STOXX Europe 600<sup>®</sup> Supersector indices. The composition of the Underlying is reviewed annually, based on the closing stock data on the last trading day in August. The component stocks are announced on the first trading day in September. Changes to the component stocks are implemented on the third Friday in September and are effective the following trading day. Changes in the composition of the Underlying are made to ensure that the Underlying includes the 50 market sector leaders from within the Underlying.

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

The Underlying is also reviewed on an ongoing monthly basis. Corporate actions (including initial public offerings, mergers and takeovers, spin-offs, delistings, and bankruptcy) that affect the Underlying composition are announced immediately, implemented two trading days later and become effective on the next trading day after implementation. Calculation of the Underlying

The Underlying 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 Underlying value can be expressed as follows:

Underlying =  $\frac{\text{Free float market capitalization of the Underlying}}{\text{Divisor}}$ 

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

The Underlying is also subject to a divisor, which is adjusted to maintain the continuity of the Underlying 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 Underlying) in connection with certain securities, including the Securities offered hereby. 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 Underlying and the related trademarks for use in connection with the Securities. STOXX does not:

·sponsor, endorse, sell, or promote the Securities;

·recommend that any person invest in the Securities offered hereby or any other securities;

•have any responsibility or liability for or make any decisions about the timing, amount, or pricing of the Securities; •have any responsibility or liability for the administration, management, or marketing of the Securities; or

consider the needs of the Securities or the holders of the Securities in determining, composing, or calculating the Underlying, or have any obligation to do so.

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

·STOXX does not make any warranty, express or implied, and disclaims any and all warranty concerning:

the results to be obtained by the Securities, the holders of the Securities or any other person in connection

with the use of the Underlying and the data included in the Underlying;

·the accuracy or completeness of the Underlying and its data;

•the merchantability and the fitness for a particular purpose or use of the Underlying and its data;

•STOXX will have no liability for any errors, omissions, or interruptions in the Underlying or its 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 Securities or any other third parties.

### Historical Information

The following table sets forth the quarterly high, low and period-end closing levels of the SX5E, as reported by Bloomberg L.P. The historical performance of the SX5E should not be taken as an indication of future performance. We cannot give you assurance that the performance of the SX5E will result in the return of any of your initial investment.

Quarter Pagin	Quarter End	Quarterly Closing	Quarterly Closing	Quarterly Period-End
Quarter Begin	Quarter Ellu	High	Low	Close
1/1/2008	3/31/2008	4,339.23	3,431.82	3,628.06
4/1/2008	6/30/2008	3,882.28	3,340.27	3,352.81
7/1/2008	9/30/2008	3,445.66	3,000.83	3,038.20
10/1/2008	12/31/2008	3,113.82	2,165.91	2,447.62
1/1/2009	3/31/2009	2,578.43	1,809.98	2,071.13
4/1/2009	6/30/2009	2,537.35	2,097.57	2,401.69
7/1/2009	9/30/2009	2,899.12	2,281.47	2,872.63
10/1/2009	12/31/2009	2,992.08	2,712.30	2,964.96
1/1/2010	3/31/2010	3,017.85	2,631.64	2,931.16
4/1/2010	6/30/2010	3,012.65	2,488.50	2,573.32
7/1/2010	9/30/2010	2,827.27	2,507.83	2,747.90
10/1/2010	12/31/2010	2,890.64	2,650.99	2,792.82
1/1/2011	3/31/2011	3,068.00	2,721.24	2,910.91
4/1/2011	6/30/2011	3,011.25	2,715.88	2,848.53
7/1/2011	9/30/2011	2,875.67	1,995.01	2,179.66
10/1/2011	12/31/2011	2,476.92	2,090.25	2,316.55
1/1/2012	3/31/2012	2,608.42	2,286.45	2,477.28
4/1/2012	6/30/2012	2,501.18	2,068.66	2,264.72
7/1/2012	9/30/2012	2,594.56	2,151.54	2,454.26
10/1/2012	12/31/2012	2,659.95	2,427.32	2,635.93
1/1/2013	3/31/2013	2,749.27	2,570.52	2,624.02
4/1/2013	6/30/2013	2,835.87	2,511.83	2,602.59
7/1/2013	9/30/2013	2,936.20	2,570.76	2,893.15
10/1/2013	12/31/2013	3,111.37	2,902.12	3,109.00
1/1/2014	3/31/2014	3,172,43	2.962.49	

#### Valuation Inputs

Other Financial Instruments	Level 1	L	evel 2	Level 3***	Total Value
Assets					
Forward Currency Contracts Liabilities	\$	\$	572,141 \$		\$ 572,141
Forward Currency Contracts			(1,033,541)		(1,033,541)
Total	\$	\$	(461,400)\$		\$ (461,400)

\* For detailed country descriptions, see accompanying Schedule of Portfolio Investments

\*\* During the period ended April 30, 2012 there were significant transfers between Level 1 and Level 2 securities. A security s classification as Level 1 or Level 2 within the Fund can move on a daily basis throughout the year depending on whether or not the Fund has determined the value of securities principally traded in foreign markets has become stale between the close of the foreign

exchanges and the time the Funds calculates its NAV. If management determines the price has become stale, a fair value adjustment will be made to the impacted securities and these fair value adjusted securities are considered to be priced using Level 2 inputs. As a result, it is not practicable to disclose transfers between Level 1 and Level 2 within the fair value hierarchy for the period ended April 30, 2012.

\*\*\* During the six months ended April 30, 2012, the Fund did not hold any Level 3 securities.

# Notes to Financial Statements

April 30, 2012 (Unaudited)

**Security Transactions and Investment Income:** Security transactions are accounted for on a trade date basis. Realized gains and losses are computed on the identified cost basis. Interest income is recorded on the accrual basis and includes accretion of discounts and amortization of premiums, where applicable. To the extent any issuer defaults or a credit event occurs that impacts the issuer, the Fund may halt any additional interest income accruals and consider the realizability of interest accrued up to the date of default or credit event. Dividend income is recorded on the ex-dividend date or in the case of some foreign securities, on the date thereafter when the Fund is made aware of the dividend. Foreign income may be subject to foreign withholding taxes, which are accrued as applicable. Capital gains realized on some foreign securities are subject to foreign taxes, which are accrued as applicable. Dividends and interest from non U.S. sources received by the Fund are generally subject to non U.S. withholding taxes at rates ranging up to 30%. Such withholding taxes may be reduced or eliminated under the terms of applicable U.S. income tax treaties, and the Fund intends to undertake any procedural steps required to claim the benefits of such treaties.

**Federal and Other Income Taxes:** It is the Fund s policy to comply with the Federal income and excise tax requirement of the Internal Revenue Code of 1986 (the Code), as amended applicable to regulated investment companies and to distribute timely, all of its investment company taxable income and net realized capital gains to shareholders in accordance with timing requirements imposed by the Code. Therefore, no federal income or state tax provision is required in the Fund's financial statements. Under applicable foreign tax laws, a withholding tax may be imposed on interest, dividends, and capital gains earned on foreign investments. Where available, the Fund will file for claims on foreign taxes withheld.

Management has analyzed the Fund s tax positions taken on income tax returns for all open tax years and has concluded that as of April 30, 2012, no provision for income tax is required in the Fund s financial statements. The Fund s federal and state income and federal excise tax returns for tax years for which the applicable statutes of limitations have not expired are subject to examination by Internal Revenue Service and state departments of revenue.

Under the applicable foreign tax laws, a withholding tax may be imposed on interest, dividends and capital gains at various rates.

**Reclassification:** GAAP requires that certain components of net assets be reclassified to reflect permanent differences between financial and tax reporting. These reclassifications have no effect on net assets or net asset value per share.

**Distributions to Shareholders:** The Fund intends to make a level distribution each month to its shareholders of the net investment income of the Fund after payment of Fund operating expenses. The level distribution rate may be modified by the Board of Trustees from time to time. If, for any monthly distribution, investment company

taxable income, if any (which term includes net short term capital gain) and net tax-exempt income, if any, is less than the amount of the distribution, the difference will generally be a tax free return of capital distributed from the Fund's assets. The Fund's final distribution for each calendar year will include any remaining investment company taxable income and net tax exempt income undistributed during the year, as well as all net capital gains, if any, realized during the year. If the total distributions made in any fiscal year exceed annual investment company taxable income, net tax exempt income and net capital gain, such excess distributed amount would be treated as ordinary dividend income to the extent of the Fund's current and accumulated earnings and profits. Distributions in excess of the accumulated investment company taxable income, net tax-exempt income and net capital gain would first be a tax free return of capital to the extent of the adjusted tax basis in the shares. After such adjusted tax basis is reduced to zero, the distribution would constitute capital gain (assuming the shares are held as capital assets). Distributions to shareholders are recorded by the Fund on the ex dividend date and are determined in accordance with income tax regulations, which may differ from GAAP.

**Foreign Currency Translation Transactions:** The Fund may invest a portion of its assets in foreign securities. In the event that the Fund executes a foreign security transaction, the Fund will generally enter into a forward foreign currency contract to settle the foreign security transaction. The books and records of the Fund are maintained in U.S. dollars. Non U.S. denominated amounts are translated into U.S. dollars as follows, with the resultant translation gains and losses recorded in the Statements of Operations:

i) market value of investment securities and other assets and liabilities at the exchange rate on the valuation date.

ii) purchases and sales of investment securities, income and expenses at the exchange rate prevailing on the respective date of such transactions.

**Risk Associated With Foreign Securities and Currencies:** Investments in securities of foreign issuers carry certain risks not ordinarily associated with investments in securities of domestic issuers. Such risks include future political and economic developments and the possible imposition of exchange controls or other foreign governmental laws and restrictions. In addition, with respect to certain countries, there is a possibility of expropriation of assets, confiscatory taxation, political or social instability or diplomatic developments, which could adversely affect investments in those countries. Certain countries may also impose substantial restrictions on investments in their capital markets by foreign entities, including restrictions on investments in issuers or industries deemed sensitive to relevant national interests. These factors may limit the investment opportunities available to the Fund or result in a lack of liquidity and high price volatility with respect to securities of issuers from developing countries.

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# Notes to Financial Statements

#### April 30, 2012 (Unaudited)

**Forward Currency Contracts:** The Fund is subject to foreign currency exchange rate risk in the normal course of pursuing its investment objective. The Fund may use forward currency contracts to gain exposure to or hedge against changes in the value of foreign currencies. A forward currency contract (forward) is an agreement between two parties to buy and sell a currency at a set price on a future date. The market value of the forward contract fluctuates with changes in forward currency exchange rates. The forward contract is marked to market daily and the change in market value is recorded by the Fund as unrealized appreciation or depreciation. When the forward contract is closed, the Fund records a realized gain or loss

equal to the fluctuation in value during the period the forward contract was open. The Fund could be exposed to risk if a counterparty is unable to meet the terms of a forward or if the value of the currency changes unfavorably. The Fund held 18 forward currency contracts as of April 30, 2012.

During the six months ended April 30, 2012, the Fund entered into approximately 18 forward currency contracts and recorded a net unrealized loss of \$461,400 on the Statement of Operations related to investments in forward currency contracts.

The Fund held the following forward currency contracts at April 30, 2012:

Description	Expiration Date	Contracts to Deliver/Receive	Settlement Value	Current Value	Unrealized Gain/(Loss)
Contracts Bought:					
British Pound	06/29/12	6,250,300 (GBP) \$	9,968,300 \$	10,140,040	\$ 171,740
Euro	06/29/12	25,258,200 (EUR)	33,269,066	33,443,119	174,053
Swedish Krona	06/29/12	152,076,700 (SEK)	22,516,705	22,574,602	57,897
			Total \$	66,157,761	\$ 403,690
Contracts Sold:					
British Pound	06/29/12	17,754,500 (GBP) \$	28,022,438 \$	28,803,633	(781,195)
Euro	06/29/12	3,426,000 (EUR)	4,552,160	4,536,195	15,965
Euro	06/29/12	26,915,900 (EUR)	35,421,522	35,637,997	(216,475)
Swedish Krona	06/29/12	177,502,000 (SEK)	26,501,275	26,348,789	152,486
Swedish Krona	06/29/12	185,028,400 (SEK)	27,430,154	27,466,025	(35,871)
			Total \$	122,792,639	\$ (865,090)

**Derivative instruments and hedging activities:** Financial Accounting Standards Board Codification Topic 815 requires enhanced disclosure about an entity s derivative and hedging activities.

The following tables provide information about the effect of derivatives and hedging activities on the Fund s Statement of Operations for the six months ended April 30, 2012. The first table provides additional detail about the amounts and sources of gains (losses) realized on derivatives during the period. The second table provides additional information about the change in unrealized appreciation (depreciation) resulting from the Fund s derivatives and hedging activities during the period.

The effect of derivative instruments on the Statement of Assets and Liabilities for the six months ended April 30, 2012:

	Asset Derivatives	
Derivatives not accounted for as hedging instruments	Statement of Assets and Liabilities Location	Fair Value
Foreign currency contracts	Unrealized appreciation on forward currency contracts	\$572,141
Total		\$572,141
	Liability Derivative	S
Derivatives not accounted for as hedging instruments	Statement of Assets and Liabilities Location	Fair Value
Foreign currency	Unrealized depreciation on forward currency	\$1.000 E 11
contracts	contracts	\$1,033,541
Total		\$1,033,541

The effect of derivative instruments on the Statement of Operations for the six months ended April 30, 2012:

Derivatives	Statement of Operations Location	Realized Gain/(Loss) On Derivatives	Change in Unrealized Gain/(Loss) On Derivatives
Foreign exchange contracts	Net realized loss on investments: Foreign currency transactions/Change in net unrealized depreciation of: Foreign currency translations		\$ \$(461,400)
Total			\$ \$(461,400)

## Notes to Financial Statements

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April 30, 2012 (Unaudited)

#### 3. PURCHASES AND SALES OF SECURITIES:

Durahaaaa

Purchases and sales of securities (excluding short term securities) for the six months ended April 30, 2012 are as follows:

Fulchases	Sales
\$1,678,799,170	\$1,728,938,799

The Fund did not have purchases and sales of U.S. Government obligations for the six months ended April 30, 2012.

#### 4. INVESTMENT ADVISORY AGREEMENT AND ADMINISTRATION AGREEMENT:

Alpine Woods Capital Investors LLC serves as the Fund s investment adviser pursuant to an Investment Advisory Agreement with the Fund. As compensation for its services to the Fund, Alpine Woods receives an annual investment advisory fee of 1.00% based on the Fund s average daily Total Assets, computed daily and payable monthly.

State Street Bank and Trust Company (SSBT) serves as the Fund's administrator pursuant to an Administration, Bookkeeping and Pricing Services Agreement with the Fund. As compensation for its services to the Fund, SSBT receives an annual administration fee of 0.02% of total net assets on the first \$5 billion and 0.015% on total net assets exceeding \$5 billion, computed daily and payable monthly.

#### 5. INCOME TAX INFORMATION:

**Classification of Distributions:** Net investment income (loss) and net realized gain (loss) may differ for financial statement and tax purposes. The character of distributions made during the year from net investment income or net realized gains may differ from its ultimate characterization for federal income tax purposes.

The tax character of the distributions paid by the Fund during the year ended October 31, 2011 was as follows:

Distributions paid from:

Ordinary Income

Total

Tax components of distributable earnings are determined in accordance with income tax regulations which may differ from the composition of net assets reported under accounting principles generally accepted in the United States. Accordingly, for the year ended October 31, 2011, the effects of certain differences were reclassified. The fund decreased accumulated net investment income by \$2,762,779 and decreased accumulated net realized loss by \$2,762,779. These differences were primarily due to the differing tax treatment of foreign currency and certain other investments. Net assets of the portfolio were unaffected by the reclassifications and the calculation of net investment income per share in the Financial Highlights excludes these adjustments.

At October 31, 2011, the Fund had available for tax purposes unused capital loss carryovers of \$164,214,963, expiring October 31, 2015, unused capital loss carryovers of \$1,575,094,244, expiring October 31, 2016, unused capital loss carryovers of \$896,144,160, expiring October 31, 2017, unused capital loss carryovers of \$342,916,726, expiring October 31, 2018 and unused

\$148,090,420

\$148,090,420

capital loss carryovers of \$24,489,359, expiring October 31, 2019.

As of October 31, 2011, the components of distributable earnings on a tax basis were as follows:

Undistributed Ordinary Income	\$ 11,503,002
Accumulated Capital Loss	(3,002,859,452)
Unrealized Appreciation	46,513,826
Total	\$ (2,944,842,624)

As of April 30, 2012, net unrealized appreciation/(depreciation) of investments based on federal tax costs was as follows:

•	100 101 000
\$	163,434,202
	(27,409,455)
	(706,214)
	135,318,533
\$	937,029,745
	\$

The differences between book and tax net unrealized appreciation and cost were primarily due to deferral of losses from wash sales and to the different tax treatment of certain other investments.

The Regulated Investment Company ( RIC ) Modernization Act of 2010 (the Modernization Act ) modernizes several of the federal income and excise tax provisions related to RICs. The Modernization Act contains simplification provisions effective for taxable years beginning after December 22, 2010, which are aimed at preventing disqualification of a RIC for inadvertent failures of the asset diversification and/or qualifying income tests. Additionally, the Modernization Act allows capital losses to be carried forward indefinitely, and retain the character of the original loss, exempts RICs from the preferential dividend rule and repealed the 60-day designation requirement for certain types of pay-through income and gains.

#### 6. LINE OF CREDIT:

On December 1, 2010, the Fund executed a Prime Brokerage Agreement with BNP Paribas Prime Brokerage International Ltd and also executed a Committed Facility Agreement which allows the Fund to borrow on a secured and committed basis. The maximum commitment amounts were (i) \$300,000,000 USD between December 1, 2010 and February 28, 2011; (ii) \$700,000,000 USD between March 1, 2011 and May 31, 2011; and (iii) \$300,000,000 USD after May 31, 2011. The facility is a rolling six month facility. The

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April 30, 2012 (Unaudited)

maximum commitment of \$300,000,000 USD increased to \$700,000,000 USD between March 1, 2012 and May 31, 2012, thereafter the maximum commitment will revert to \$300,000,000 USD until the earlier of six months from a notice of termination or until increased to \$700,000,000 USD on March 1, 2013. During the six months ended April 30, 2012, the average borrowing by the Fund was \$48,529,739 with an average rate on borrowings of 1.06%. Interest expense related to the loan for the six months ended April 30, 2012 was \$261,275. At April 30, 2012 the outstanding loan for the fund was \$61,519,862.

#### 7. SUBSEQUENT EVENTS:

**Distributions:** The Fund paid a distribution of \$12,156,677 or \$0.055 per common share on May 31, 2012 to common shareholders of record on May 21, 2012.

The Fund also declared a distribution of \$0.055 payable on June 29, 2012 to common shareholders of record on June 22, 2012.

#### 8. NEW ACCOUNTING PRONOUNCEMENT:

In May 2011, the FASB issued ASU No. 2011-04, Fair Value Measurement: Amendments to Achieve Common Fair Value Measurement and Disclosure Requirements in U.S. GAAP and IFRS (ASU 2011-04), modifying ASC 820. At the same time, the International Accounting Standards Board (IASB) issued International Financial Reporting Standard (IFRS) 13, Fair Value Measurement. The objective by the FASB and IASB is convergence of their guidance on fair value measurements and disclosures. Specifically, ASU 2011-04 requires reporting entities to disclose: (1) the amounts and reasons for any transfers between Level 1 and Level 2, and (2) for Level 3 fair value measurements: (a) quantitative information about significant unobservable inputs used, (b) a description of the valuation procedures used by the reporting entity, and (c) a narrative description of the sensitivity of the fair value measurement to changes in unobservable inputs if a change in those inputs might result in a significantly higher or lower fair value measurement. The effective date of ASU 2011-04 is for interim and annual periods beginning after December 15, 2011. At this time, management is evaluating the implications of this requirement and the impact it will have to the Fund's financial statement disclosures.

# Additional Information

April 30, 2012 (Unaudited)

#### **DIVIDEND REINVESTMENT PLAN**

Unless the registered owner of common shares elects to receive cash by contacting Boston Financial Data Services, Inc. ( Plan Administrator ), all dividends or other distributions (together, Dividends and each, a Dividend ) declared on common shares will be automatically reinvested by the Plan Administrator for shareholders in the Fund s Dividend Reinvestment Plan (the Plan ), in additional common shares of the Fund. Shareholders that are not permitted to participate through their broker or nominee or who elect not to participate in the Plan will receive all Dividends in cash paid by check mailed directly to the shareholder of record (or, if the common shares are held in street or other nominee name, then to such nominee) by the Plan Administrator, as dividend disbursing agent. You may elect not to participate in the Plan and to receive all Dividends in cash by contacting the Plan Administrator, as dividend disbursing agent, at the address set forth below. Participation in the Plan is completely voluntary and may be terminated or resumed at any time without penalty by notice if received and processed by the Plan Administrator prior to the dividend record date; otherwise such termination or resumption will be effective with respect to any subsequently declared Dividend. If you hold your shares through a broker, and you wish for all Dividends declared on your common shares to be automatically reinvested pursuant to the Plan, please contact your broker.

The Plan Administrator will open an account for each shareholder under the Plan in the same name in which such shareholder s common shares are registered. Whenever the Fund declares a Dividend payable in cash, non-participants in the Plan will receive cash and participants in the Plan will receive the equivalent in common shares. The common shares will be acquired by the Plan Administrator for the participants accounts, depending upon the circumstances described below, either (i) through receipt of additional unissued but authorized common shares from the Fund ( Newly Issued common shares ) or (ii) by purchase of outstanding common shares on the open market ( Open-Market Purchases ) on the NYSE or elsewhere. If, on the payment date for any Dividend, the closing market price plus estimated brokerage commissions per share is equal to or greater than the NAV per share, the Plan Administrator will invest the Dividend amount in Newly Issued common shares on behalf of the participants. The number of Newly Issued common shares to be credited to each participant s account will be determined by dividing the dollar amount of the Dividend by the NAV per share on the payment date; provided that, if the NAV is less than or equal to 95% of the closing market value on the payment date, the dollar amount of the Dividend will be divided by 95% of the closing market price per share on the payment date for any Dividend, the NAV per share is greater than the closing market value plus estimated brokerage commissions, the Plan Administrator will invest the Dividend amount in common shares acquired on behalf of the participants accound the payment date for any Dividend, the payment date. If, on the payment date for any Dividend, the NAV per share is greater than the closing market value plus estimated brokerage commissions, the Plan Administrator will invest the Dividend amount in common shares acquired on behalf of the participants in Open-Market Purchases.

In the event of a market discount on the payment date for any Dividend, the Plan Administrator will have until the last business day before the next date on which the common shares trade on an ex-dividend basis or 30 days after the payment date for such

Dividend, whichever is sooner (the Last Purchase Date ), to invest the Dividend amount in common shares acquired in Open-Market Purchases. If, before the Plan Administrator has completed its Open-Market Purchases, the market price per share exceeds the NAV per share, the average per share purchase price paid by the Plan Administrator may exceed the NAV of the common shares, resulting in the acquisition of fewer common shares than if the Dividend had been paid in Newly Issued common shares on the Dividend payment date. Because of the foregoing difficulty with respect to Open-Market Purchases, the Plan provides that if the Plan Administrator is unable to invest the full Dividend amount in Open-Market Purchases during the purchase period or if the market discount shifts to a market premium during the purchase period, the Plan Administrator may cease making Open-Market Purchases and may invest the uninvested portion of the Dividend amount in Newly Issued common shares at the NAV per share at the close of business on the Last Purchase Date provided that, if the NAV is less than or equal to 95% of the then current market price per share, the dollar amount of the Dividend will be divided by 95% of the market price on the payment date for purposes of determining the number of shares issuable under the Plan.

The Plan Administrator maintains all shareholders accounts in the Plan and furnishes written confirmation of all transactions in the accounts, including information needed by shareholders for tax records. Common shares in the account of each Plan participant will be held by the Plan Administrator on behalf of the Plan participant, and each shareholder proxy will include those shares purchased or received pursuant to the Plan. The Plan Administrator will forward all proxy solicitation materials to participants and vote proxies for shares held under the Plan in accordance with the instructions of the participants.

In the case of the Fund s shareholders such as banks, brokers or nominees which hold shares for others who are the beneficial owners, the Plan Administrator will administer the Plan on the basis of the number of common shares certified from time to time by the record shareholder s name and held for the account of beneficial owners who participate in the Plan.

There will be no brokerage charges with respect to common shares issued directly by the Fund. However, each participant will pay a pro rata share of brokerage commissions incurred in connection with Open-Market Purchases. The automatic reinvestment of Dividends will not relieve participants of any U.S. federal, state or local income tax that may be payable (or required to be withheld) on such Dividends. See U.S. Federal Income Tax Matters. Participants that request a sale of common shares through the Plan Administrator are subject to brokerage commissions.

Shareholders participating in the Plan may receive benefits not available to shareholders not participating in the Plan. If the market price plus commissions of the Fund s shares is higher than the NAV, participants in the Plan will receive shares of the Fund for less than they could otherwise purchase them and will have shares with a cash value greater than the value of any cash distribution they would have

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# Additional Information

#### April 30, 2012 (Unaudited)

received on their shares. If the market price plus commissions is below the net asset value, participants receive distributions of shares with a NAV greater than the value of any cash distribution they would have received on their shares. However, there may be insufficient shares available in the market to make distributions in shares at prices below the NAV. Also, because the Fund does not redeem its shares, the price on resale may be more or less than the NAV.

The Fund reserves the right to amend or terminate the Plan. There is no direct service charge to participants with regard to purchases in the Plan; however, the Fund reserves the right to amend the Plan to include a service charge payable by the participants.

All correspondence or questions concerning the Plan should be directed to the Plan Administrator, Boston Financial Data Services Inc. c/o Alpine Closed-End Funds, PO Box 8128, Boston, MA 02266-8128 or by calling toll-free 1 (800) 617.7616.

#### BOARD APPROVAL OF INVESTMENT MANAGEMENT AGREEMENT

In the weeks leading up to the Meeting, of the Board on March 28th, 2012, the Board Members reviewed materials specifically relating to the Advisory Contracts provided by the Adviser. The Board members had the opportunity to, and did, ask specific questions of the Adviser relating to the materials provided. In deciding whether to renew the Agreements, the Independent Trustees considered various factors, including (i) the nature, extent and quality of the services provided by Adviser under the Agreements, (ii) the investment performance of the Funds, (iii) the costs to the Adviser of its services and the profits realized by the Adviser, from its relationship with the Funds, and (iv) the extent to which economies of scale would be realized if and as a Fund grows and whether the fee levels in the Agreements reflect these economies of scale.

In considering the nature, extent and quality of the services provided by Adviser, the Independent Trustees relied on their prior experience as Independent Trustees of the Funds as well as on the materials provided at and prior to the meeting. They noted that under the Agreements, the Adviser is responsible for managing the Funds investments in accordance with the Fund s investment objectives and policies, applicable legal and regulatory requirements, and the instructions of the Independent Trustees, for providing necessary and appropriate reports and information to the Independent Trustees, and for furnishing the Funds with the assistance, cooperation, and information necessary for the Funds to meet various legal requirements regarding registration and reporting. They also noted the experience and expertise of the Adviser as appropriate as an adviser to the Funds.

The Independent Trustees reviewed the background and experience of the Adviser's senior management, including those individuals responsible for the investment and compliance operations with respect to the Funds investments, and the responsibilities of the investment and compliance personnel with respect to the Fund. They also considered the resources, operational structures and practices

of the Adviser in managing the Funds portfolios, in monitoring and securing the Funds compliance with investment objectives and policies and with applicable laws and regulations, and in seeking best execution of portfolio transactions. Drawing upon the materials provided and their general knowledge of the business of the Adviser, the Independent Trustees took into account that the Adviser's experience, resources and strength in these areas are deep, extensive and of high quality. On the basis of this review, the Independent Trustees determined that the nature and extent of the services provided by the Adviser to the Fund were appropriate, had been of high quality, and could be expected to remain so.

The Independent Trustees discussed the Fund performance metrics compiled from Morningstar data and those internally generated by Alpine. It was observed that the last quarter of performance had been strong for several of the Funds. In assessing the quality of the portfolio management delivered by the Adviser, the Independent Trustees also compared the short-term and long-term performance of each Fund on both an absolute basis and in comparison to its peer group, as constructed by data provided by independent rating agencies. The Independent Trustees noted that the performance of a number of the Funds was strong. Of importance to the Independent Trustees was the extent to which the Funds achieved their objectives. They further concluded that the expense ratios of the Funds were appropriate and in line with competitors. Accordingly, the Independent Trustees concluded that the performance of the Funds was satisfactory.

The Independent Trustees considered the profitability of the advisory arrangement with the Adviser. The Independent Trustees had been provided with general data on the Funds profitability with respect to the advisory arrangement with the Adviser. The Independent Trustees also examined the level of profits that could be expected to accrue to the Adviser from the fees payable under the Agreements and any expense subsidization undertaken by the Adviser, as well as each Funds brokerage and commissions. After discussion and analysis, they concluded that, to the extent that the Adviser s relationship with the Funds had been profitable, the profitability was in no case such as to render the advisory fee excessive.

The Independent Trustees discussed the other materials provided by Alpine, including expense information, organization charts, advisory fee breakpoints and profitability data. In reviewing breakpoints, the Independent Trustees recognized that breakpoints were more relevent for open-end funds, where assets could continue to grow over time.

In considering whether the Adviser benefits in other ways from its relationship with the Funds, the Independent Trustees concluded that, to the extent that Adviser derives other benefits from its relationship with the Funds, those benefits are not so significant as to render the Adviser s fees excessive.

On the basis of their discussions with management and their analysis of information provided at the meeting, the Independent Trustees determined that the nature of the Funds and their operations is such

## Alpine View

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that the Adviser may realize economies of scale in the management of certain Funds as they grow in size.

The Independent Trustees approved the continuance of the Funds Agreements with Adviser after weighing the foregoing factors. They reasoned that the nature and extent of the services provided by the Adviser were appropriate, that the performance of the Funds had been satisfactory, and that Adviser could be expected to provide services of high quality. As to the Adviser s fees for the Funds, the Independent Trustees determined that the fees, considered in relation to the services provided, were fair and reasonable, that the Funds relationship with the Adviser was not so profitable as to render the fees excessive, that any additional benefits to the Adviser were not of a magnitude that materially affected the Independent Trustees deliberations, and that the fees adequately reflected shared economies of scale with the Funds.

After reconvening, the Trustees, including a majority of the Independent Trustees, agreed to approve the continuation of the Agreements for one year.

#### FUND PROXY VOTING POLICIES & PROCEDURES

Policies and procedures used in determining how to vote proxies relating to portfolio securities and a summary of proxies voted by the Fund are available without a charge, upon request, by contacting the Fund at 1(800) 617.7616 and on the Securities and Exchange Commission s ( Commission ) web site at http://www.sec.gov.

#### **PORTFOLIO HOLDINGS**

The Fund files its complete schedule of portfolio holdings with the Commission for the first and third quarters of each fiscal year on Form N-Q within 60 days after the end of the period. Copies of the Fund s Forms N-Q are available without a charge, upon request, by contacting the Fund at 1(800)617.7616 and on the Commission s web site at http://www.sec.gov. You may also review and copy Form N-Q at the Commission s Public Reference Room in Washington, D.C. For more information about the operation of the Public Reference Room, please call the Commission at 1(800)SEC.0330.

#### **DESIGNATION REQUIREMENTS**

Of the distributions paid by the Fund from ordinary income for the year ended October 31, 2011, the following percentages met the requirements to be treated as qualifying for the corporate dividends received deduction and qualified dividend income, respectively.

Dividends Received Deduction	8.29%
Qualified Dividend Income	41.47%

#### SHAREHOLDER MEETING

On June 8, 2012, the Fund held its Annual Meeting of Shareholders (the Meeting) for the purpose of voting on a proposal to re-elect one trustee of the Fund and to conduct other business. The results of the proposals below reflect the percentage of shares voted at the meeting and are as follows:

**Proposal 1:** To elect Samuel A. Lieber as Trustee to the Board of Trustees for a term of three years to expire at the 2015 Annual Meeting and until his successor has been duly elected and qualified.

Samuel A. Lieber

For 94.07% Withheld 5.93%

**Proposal 2:** To transact such other business as may properly come before the meeting or any adjournments or postponements thereof.

For	93.69%
Against	7.45%
Abstain	1.62%

#### NOTICE

Notice is hereby given in accordance with Section 23(c) of the Investment Company Act of 1940 that the Fund may purchase at market prices from time to time its common shares in the open market.

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INVESTOR

1(800) 617.7616 | www.alpinefunds.com

INFORMATION

Investment Adviser

Alpine Woods Capital Investors, LLC

2500 Westchester Ave., Suite 215

Purchase, NY 10577

Administrator &

Custodian

State Street Bank & Trust Company

One Lincoln Street

Boston, MA 02111

Transfer Agent

Boston Financial Data Services, Inc.

Two Heritage Drive

North Quincy, MA 02171

INDEPENDENT REGISTERED

PUBLIC ACCOUNTING FIRM

Deloitte & Touche LLP

555 East Wells Street

Milwaukee, WI 53202

Fund Counsel

Willkie Farr & Gallagher

787 7th Ave.

New York, NY 10019

INVESTOR INFORMATION

1(800) 617.7616

www.alpinefunds.com

#### Item 2. Code of Ethics

Not applicable to semi-annual report.

#### Item 3. Audit Committee Financial Expert

Not applicable to semi-annual report.

#### Item 4. Principal Accountant Fees and Services

Not applicable to semi-annual report.

#### Item 5. Audit Committee of Listed Registrants

Not applicable to semi-annual report.

#### Item 6. Schedule of Investments

(a) Schedule of Investments is included as part of Item 1 of the Form N-CSR.

(b) Not applicable.

#### Item 7. Disclosure of Proxy Voting Policies and Procedures for Closed-End Management Investment Companies.

Not applicable to semi-annual report.

### Item 8. Portfolio Managers of Closed-End Management Investment Companies.

(a) Not applicable to semi-annual report.

(b) Not applicable.

#### Item 9. Purchases of Equity Securities by Closed-End Management Investment Company and Affiliated Purchasers.

No such purchases were made by or on behalf of the Registrant during the period covered by the report.

#### Item 10. Submission of Matters to a Vote of Security Holders.

There were no material changes to the procedures by which shareholders may recommend nominees to the Registrant s Board of

Trustees.

#### Item 11. Controls and Procedures.

- (a) The Registrant s principal executive officer and principal financial officer have evaluated the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended) within 90 days of this filing and have concluded that the Registrant s disclosure controls and procedures were effective, as of that date.
- (b) There was no change in the Registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940, as amended) during the second fiscal quarter of the period covered by this report that has materially affected, or is reasonably likely to materially affect, the Registrant s internal control over financial reporting.

#### Item 12. Exhibits

- (a)(1)Not applicable to semi-annual report.
- (a)(2) The certifications required by Rule 30a-2(a) of the Investment Company Act of 1940, as amended, and Section 302 of the Sarbanes-Oxley Act of 2002 are attached hereto as Ex99.Cert.
- (a)(3) No such written solicitations were sent or given during the period covered by the report by or on behalf of the Registrant.
- (b) The certifications by the Registrant s Principal Executive Officer and Principal Financial Officer, as required by Rule 30a-2(b) of the Investment Company Act of 1940, as amended, and Section 906 of the Sarbanes-Oxley Act of 2002 are attached hereto as Ex99.906Cert.

#### SIGNATURES

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, the registrant has duly caused this report to be signed on its behalf by the undersigned, thereunto duly authorized.

Alpine Total Dynamic Dividend Fund

By: /s/ Samuel A. Lieber

Samuel A. Lieber Chief Executive Officer (Principal Executive Officer)

Date: July 9, 2012

Pursuant to the requirements of the Securities Exchange Act of 1934 and the Investment Company Act of 1940, this report has been signed below by the following persons on behalf of the registrant and in the capacities and on the dates indicated.

By: /s/ Samuel A. Lieber

Samuel A. Lieber Chief Executive Officer (Principal Executive Officer)

By: /s/ Ronald G. Palmer, Jr.

Ronald G. Palmer, Jr. Chief Financial Officer (Principal Financial Officer)

Date: July 9, 2012