Royal Bank of Canada is offering Callable Reverse Convertible Notes linked to the common stock of Zions Bancorporation ("RevCons" or the "Notes"). The RevCons offered are senior unsecured obligations of Royal Bank of Canada, will pay a coupon at the interest rate specified below, and will have the terms described in the documents described above, as supplemented or modified by this pricing supplement, as set forth below.

The RevCons do not guarantee any return of principal at maturity. Any payments on the RevCons are subject to our credit risk.


The RevCons will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation (the "FDIC") or any other Canadian or U.S. government agency or instrumentality.

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

Issuer: Royal Bank of Canada
Listing: None
Pricing Date: September 7, 2010
Principal Amount: $1,000 per RevCons
Issuance Date: September 10, 2010
Maturity Date: September 12, 2011
Coupon Payment: Each coupon will be paid in equal quarterly payments. (30/360)
Initial Stock Price: As set forth below.
Automatic Call: The Notes will be automatically called if the closing price of the Reference Stock is equal to or greater than the Initial Stock Price on any quarterly Call Date. The Call Price will be 100% of the principal amount, plus any accrued and unpaid interest.
Payment at Maturity (if held to maturity): For each $1,000 principal amount, $1,000 plus any accrued and unpaid interest at maturity unless the Final Stock Price is less than the Barrier Price.
If the Final Stock Price is less than the Barrier Price, then at maturity the investor will receive, instead of the principal amount, in addition to accrued and unpaid interest, the number of shares of the Reference Stock equal to the Physical Delivery Amount, or at our election, the cash value of those shares.
Physical Delivery Amount: For each $1,000 principal amount, a number of shares of the Reference Stock equal to the principal amount divided by the Initial Stock Price, subject to adjustment as described in the product prospectus supplement.

The price at which you purchase the RevCons includes hedging costs and profits that Royal Bank of Canada or its affiliates expect to incur or realize. These costs and profits will reduce the secondary market price, if any secondary market develops, for the RevCons. As a result, you may experience an immediate and substantial decline in the market value of your RevCons on the Issue Date.

We may use this pricing supplement in the initial sale of the RevCons. In addition, RBC Capital Markets Corporation or another of our affiliates may use this pricing supplement in a market-making transaction in the RevCons after their initial sale. Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this pricing supplement is being used in a market-making transaction.
SUMMARY

*The information in this “Summary” section is qualified by the more detailed information set forth in this pricing supplement, the product prospectus supplement, the prospectus supplement, and the prospectus.*

General: This pricing supplement relates to an offering of Reverse Convertible Notes ("RevCons" or the “Notes”) linked to the common stock of Zions Bancorporation (the “Reference Stock”). The Notes have a term of twelve months.

Issuer: Royal Bank of Canada ("Royal Bank")

Issue: Senior Medium-Term Notes, Series D

Pricing Date: September 7, 2010

Issuance Date: September 10, 2010

Denominations: Minimum denomination of $1,000, and integral multiples of $1,000 thereafter.

Designated Currency: U.S. Dollars

Coupon Payment: Each coupon will be paid in equal quarterly payments. (30/360)

Coupon Payment Date(s): The coupon will be paid on December 10, 2010, March 10, 2011, June 10, 2011 and the Maturity Date.

Automatic Call: If, on any Call Date, the closing price of the Reference Stock is equal to or greater than the Call Price, then the Notes will be automatically called.

Payment if Called: If the Notes are automatically called, then, on the applicable Call Settlement Date, for each $1,000 principal amount, you will receive $1,000 plus any accrued and unpaid interest to but excluding the Call Settlement Date.

Call Price: Initial Stock Price.

Call Date(s): Quarterly on December 7, 2010, March 7, 2011, June 7, 2011 and September 7, 2011.

Call Settlement Date: Three business days following the applicable Call Date.

Valuation Date: September 7, 2011. The Final Call Date is also the Valuation Date.

Maturity Date: September 12, 2011, unless subject to the Automatic Call.

Reference Stock: The common stock of Zions Bancorporation, which trades on the NASDAQ Global Select Market under the symbol “ZION.”

Term: As set forth on the cover page.

Initial Stock Price: As set forth on the cover page.

Final Stock Price: The closing price of the Reference Stock on the Valuation Date.
Callable Reverse Convertible Notes
due September 12, 2011
Linked to the Common Stock of Zions Bancorporation

Payment at Maturity (if held to maturity): For each $1,000 principal amount of the Notes, the investor will receive $1,000 plus any accrued and unpaid interest at maturity unless the Final Stock Price is less than the Barrier Price.

If the Final Stock Price is less than the Barrier Price, then at maturity the investor will receive, instead of the principal amount of the Notes, in addition to any accrued and unpaid interest, the number of shares of the Reference Stock equal to the Physical Delivery Amount, or at our election, the cash value of those shares. If we elect to deliver shares of the Reference Stock, fractional shares will be paid in cash.

Monitoring Period: The Valuation Date. The price of the Reference Stock between the Pricing Date and the Valuation Date will not impact the Payment at Maturity.

Monitoring Method: Close of Trading Day.

Physical Delivery Amount: For each $1,000 principal amount, a number of shares of the Reference Stock equal to the principal amount divided by the Initial Stock Price, subject to adjustment as described in the product prospectus supplement. If this number is not a round number, then the number of shares of the Reference Stock to be delivered will be rounded down and the fractional part shall be paid in cash.

Calculation Agent: RBC Capital Markets Corporation

Secondary Market: RBC Capital Markets Corporation (or one of its affiliates), though not obligated to do so, plans to maintain a secondary market in the Notes after the Issuance Date. The amount that an investor may receive upon sale of the Notes prior to maturity may be less than the principal amount of those Notes.

Listing: None

Settlement: DTC global notes

Terms Incorporated In the Master Note: All of the terms appearing above the item captioned “Secondary Market” on pages P2 and P3 of this pricing supplement and the terms appearing under the caption “General Terms of the Notes” in the product prospectus supplement.
ADDITIONAL TERMS OF YOUR NOTES

You should read this pricing supplement together with the prospectus dated January 11, 2010, as supplemented by the prospectus supplement dated January 11, 2010 and the product prospectus supplement dated June 25, 2010, relating to our Senior Global Medium-Term Notes, Series D, of which these Notes are a part. Capitalized terms used but not defined in this pricing supplement will have the meanings given to them in the product prospectus supplement. In the event of any conflict, this pricing supplement will control. The Notes vary from the terms described in the product prospectus supplement in several important ways. You should read this pricing supplement carefully.

This pricing supplement, together with the documents listed below, contains the terms of the Notes and supersedes all 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, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the prospectus supplement dated January 11, 2010 and “Additional Risk Factors Specific to the Notes” in the product prospectus supplement dated June 25, 2010, as the Notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisors before you invest in the Notes. You may access these documents on the SEC website at www.sec.gov as follows (or if that address has changed, by reviewing our filings for the relevant date on the SEC website):

Prospectus dated January 11, 2010:
http://www.sec.gov/Archives/edgar/data/1000275/000121465910000063/m18100424b3.htm

Prospectus Supplement dated January 11, 2010:
http://www.sec.gov/Archives/edgar/data/1000275/000121465910000064/f17102424b3.htm

Product Prospectus Supplement dated June 25, 2010:
http://sec.gov/Archives/edgar/data/1000275/000121465910001745/b61101424b5.htm

Our Central Index Key, or CIK, on the SEC Website is 1000275. As used in this pricing supplement, the “Company,” “we,” “us,” or “our” refers to Royal Bank of Canada.
Callable Reverse Convertible Notes
due September 12, 2011
Linked to the Common Stock of
Zions Bancorporation

HYPOTHETICAL EXAMPLES OF AMOUNTS PAYABLE AT MATURITY

The examples set forth below are provided for illustration purposes only. The assumptions in each of the examples are purely hypothetical and do not relate to the actual performance of the Reference Stock. The hypothetical terms do not purport to be representative of every possible scenario concerning increases or decreases in the price of the Reference Stock on the Valuation Date relative to its price on the Pricing Date. We cannot predict the actual performance of the Reference Stock.

The table below illustrates the Payment at Maturity of the Notes (excluding the final Coupon), given the Initial Stock Price of $19.52 the Barrier Price of $11.71 and an initial investment of $1,000. Hypothetical Final Stock Prices are shown in the first column on the left. For this purpose, we have assumed that the Notes are not subject to an automatic call prior to maturity, and that there will be no anti-dilution adjustments to the Final Stock Price and no market disruption events. The second column shows the Payment at Maturity (as a percentage of the principal amount) in a case where the market price of the Reference Stock falls below the Barrier Price on the Valuation Date. If the market price of the Reference Stock does not fall below the Barrier Price during the Valuation Date, your Payment at Maturity will be 100% of the Principal Amount. The third column shows the Physical Delivery Amount as a number of shares of the Reference Stock. The fourth column shows the Cash Delivery Amount, should we elect to deliver the Cash Delivery Amount instead of the Physical Delivery Amount. If the Notes are called on any Call Date, including the Valuation Date, you will receive the principal amount of the Notes, plus accrued and unpaid interest.

<table>
<thead>
<tr>
<th>Hypothetical Final Stock Price</th>
<th>If the closing market price of the Reference Stock falls below the Barrier Price on the Valuation Date: Payment at Maturity as Percentage of Principal Amount</th>
<th>Physical Delivery Amount as Number of Shares of the Reference Stock</th>
<th>Cash Delivery Amount</th>
</tr>
</thead>
<tbody>
<tr>
<td>$33.41</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$29.12</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
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<tr>
<td>$26.37</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$24.35</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$19.52</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$17.57</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
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<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$11.71</td>
<td>100.00%</td>
<td>n/a</td>
<td>n/a</td>
</tr>
<tr>
<td>$11.52</td>
<td>Physical or Cash Delivery Amount</td>
<td>51.23</td>
<td>$590.17</td>
</tr>
<tr>
<td>$9.76</td>
<td>Physical or Cash Delivery Amount</td>
<td>51.23</td>
<td>$500.00</td>
</tr>
<tr>
<td>$4.88</td>
<td>Physical or Cash Delivery Amount</td>
<td>51.23</td>
<td>$250.00</td>
</tr>
<tr>
<td>$0.00</td>
<td>Physical or Cash Delivery Amount</td>
<td>51.23</td>
<td>$0.00</td>
</tr>
</tbody>
</table>

The Payments at Maturity shown above are entirely hypothetical; they are based on market prices for the Reference Stock that may not be achieved on the Valuation Date and on assumptions that may prove to be erroneous. The actual market value of your Notes on the Maturity Date or at any other time, including any time you may wish to sell your Notes, may bear little relation to the hypothetical Payments at Maturity shown above, and those amounts should...
not be viewed as an indication of the financial return on an investment in the Notes or on an investment in the Reference Stock. Please read “Additional Risk Factors Specific to Your Notes” and “Hypothetical Returns on Your Notes” in the accompanying product prospectus supplement.

Payments on your Notes are economically equivalent to the amounts that would be paid on a combination of other instruments. For example, payments on your Notes are economically equivalent to the amounts that would be paid on a combination of an interest-bearing bond purchased, and an option sold, by the investor (with an implicit option premium paid over time to the investor). The discussion in this paragraph does not modify or affect the terms of the offered Notes or the United States or Canadian income tax treatment of the offered Notes as described under “Supplemental Discussion of Canadian Tax Consequences” and “Supplemental Discussion of U.S. Federal Income Tax Consequences” in the accompanying product prospectus supplement.

**SELECTED RISK CONSIDERATIONS**

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the Reference Stock. These risks are explained in more detail in the section “Additional Risk Factors Specific to Your Notes” in the product prospectus supplement. In addition to the risks described in the prospectus supplement and the product prospectus supplement, you should consider the following:

- **Principal at Risk** — Investors in the Notes could lose some or a substantial value of their principal amount if there is a decline in the trading price of the Reference Stock between the pricing date and the valuation date. The rate of interest payable on the Notes, which will be payable for less than one year, may not be sufficient to compensate for any such loss.

- **The Notes Are Subject to an Automatic Call** — If, on any Call Date, the closing price of the Reference Stock is equal to or greater than the Call Price, then the Notes will be automatically called. If the Notes are automatically called, then, on the Call Settlement Date, for each $1,000 in principal amount, you will receive $1,000 plus any accrued and unpaid interest to but excluding the Call Settlement Date. You will not receive any interest payments after the Call Settlement Date. You may be unable to reinvest your proceeds from the Automatic Call in an investment with a return that is as high as the return on the Notes would have been if they had not been called.

- **Market Disruption Events and Adjustments** — The payment at maturity and the valuation date are subject to adjustment as described in the product prospectus supplement. For a description of what constitutes a market disruption event as well as the consequences of that market disruption event, see “General Terms of the Notes—Consequences of Market Disruption Events” in the product prospectus supplement.

- **The Inclusion in the Purchase Price of the Notes of a Selling Concession and of Royal Bank’s Cost of Hedging its Market Risk under the Notes Will Adversely Affect the Value of the Notes Prior to Maturity** — The price at which you purchase of the Notes includes a selling concession (including a broker’s commission), as well as the costs that Royal Bank (or one of its affiliates) expects to incur in the hedging of its market risk under the Notes. Such hedging costs include the expected cost of undertaking this hedge, as well as the profit that Royal Bank (or its affiliates) expects to realize in consideration for assuming the risks inherent in providing such hedge. As a result, 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 your original purchase price. The Notes are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Notes to maturity.
CERTAIN U.S. FEDERAL INCOME TAX CONSIDERATIONS

RevCon 78008KKS1 (ZION): 0.83% of each stated interest payment (16.00% in total) on the RevCons will be treated as an interest payment and 15.17% of each stated interest payment will be treated as payment for the Put Option for U.S. federal income tax purposes.

Please see the discussion (including the opinion of our counsel Morrison & Foerster LLP) in the product prospectus supplement dated June 25, 2010 under “Supplemental Discussion of U.S. Federal Income Tax Consequences,” which applies to your Notes.

INFORMATION REGARDING THE ISSUER OF THE REFERENCE STOCK

The Reference Stock is registered under the Securities Exchange Act of 1934 (the “Exchange Act”). Companies with securities registered under that Act are required to file periodically certain financial and other information specified by the Securities and Exchange Commission (the “SEC”). Information provided to or filed with the SEC can be inspected and copied at the public reference facilities maintained by the SEC or through the SEC’s website at www.sec.gov. In addition, information regarding the Reference Stock may be obtained from other sources including, but not limited to, press releases, newspaper articles and other publicly disseminated documents.

The following information regarding the issuer of the Reference Stock is derived from publicly available information.

We make no representation or warranty as to the accuracy or completeness of reports filed by the issuer with the SEC, information published by it on its website or in any other format, information about it obtained from any other source or the information provided below.

Zions Bancorporation is a bank holding company that operates full-service banking offices in western United States. The company also offers an array of investment, mortgage, insurance, and electronic commerce services. In addition, the company provides financing solutions for small businesses across the United States.

HISTORICAL INFORMATION

The following graph sets forth the recent historical performances of the Reference Stock. In addition, below the graph is a table setting forth the intra-day high, intra-day low and period-end closing prices of the Reference Stock. The information provided in the table is for the four calendar quarters of 2007, 2008, 2009, as well as for the first two calendar quarters of 2010 and the period from July 1, 2010 to September 7, 2010.

We obtained the information regarding the historical performance of the Reference Stock in the chart below from Bloomberg Financial Markets.

We make no representation or warranty as to the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of the Reference Stock should not be taken as an indication of future performance, and no assurance can be given as to the market prices of the Reference Stock on the Valuation Date. We cannot give you assurance that the performance of the Reference Stock will not result in the loss of all or part of your investment.
Callable Reverse Convertible Notes
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Zions Bancorporation

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.
SUPPLEMENTAL PLAN OF DISTRIBUTION

We expect that delivery of the Notes will be made against payment for the Notes on or about September 10, 2010, which is the third (3rd) business day following the Pricing Date (this settlement cycle being referred to as “T+3”). See “Plan of Distribution” in the prospectus supplement dated January 11, 2010.
Royal Bank of Canada

Senior Global Medium-Term Notes, Series D
Reverse Convertible Notes Linked to an Equity Security or an Exchange Traded Fund

GENERAL TERMS

Royal Bank of Canada may offer and sell reverse convertible notes (the “notes”) from time to time of any maturity. The prospectus dated January 11, 2010, the prospectus supplement dated January 11, 2010 and this product prospectus supplement describe terms that will apply generally to the notes, including any notes you purchase. A separate pricing supplement will describe the terms that apply specifically to your notes, including any changes to the terms specified below. If the terms described in the relevant pricing supplement are inconsistent with those described in this document or in the accompanying prospectus supplement or prospectus, the terms described in the relevant pricing supplement will control.

The notes are non-principal-protected unsecured notes linked to the performance of a Reference Stock, which will be either an equity security or an exchange-traded fund (“ETF”).

During the term of the notes, you will receive payments of interest at the rate, and on the dates, specified in the applicable pricing supplement.

At maturity, you will receive (a) any accrued and unpaid interest on the notes and (b) either the principal amount of the notes or, under the circumstances described in this product prospectus supplement, shares of the Reference Stock or, at our election, the case value of those shares. The market value of the shares of Reference Stock that may be delivered to you at maturity, or the cash value of those shares, will most likely be less than the principal amount of your notes, and may be zero.

The notes will not be listed on any securities exchange.

Your investment in the notes involves certain risks. See “Additional Risk Factors Specific to the Notes” beginning on page PS-3 to read about investment risks relating to the notes. Unless otherwise specified in the applicable pricing supplement, the principal of the notes is not protected, and you could lose your entire investment.

The price at which you purchase the notes includes hedging costs and profits that Royal Bank of Canada or its affiliates expect to incur or realize. These costs and profits will reduce the secondary market price, if any secondary market develops, for the notes. As a result, you will experience an immediate and substantial decline in the value of your notes on the issue date.

None of the Securities and Exchange Commission (the “SEC”), any state securities commission or any other regulatory body has approved or disapproved of the notes or passed upon the accuracy of this product prospectus supplement or the accompanying prospectus and prospectus supplement. Any representation to the contrary is a criminal offense.

We may use this product prospectus supplement in the initial sale of a note. In addition, RBC Capital Markets Corporation or one of our other affiliates may use this product prospectus supplement in a market-making transaction in a note after its initial sale. Unless we or our agent informs the purchaser otherwise in the confirmation of sale, this product prospectus supplement is being used in a market-making transaction.

The notes will not constitute deposits insured by the Canada Deposit Insurance Corporation, the U.S. Federal Deposit Insurance Corporation or any other Canadian or U.S. governmental agency or instrumentality.

RBC Capital Markets Corporation

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SUMMARY

The information in this “Summary” section is qualified by the more detailed information set forth in this product prospectus supplement, the prospectus supplement and the prospectus, as well as the relevant pricing supplement.

Issuer: Royal Bank of Canada (“Royal Bank”).
Reference Stock: As specified in the relevant pricing supplement. Each Reference Stock will be either an equity security, including an American Depositary Receipt (“ADR”), or a share of an ETF.
Interest rate (coupon): As specified in the relevant pricing supplement.
Interest payment dates: As specified in the relevant pricing supplement, subject to any prior automatic call, if applicable.
Minimum Investment: As specified in the relevant pricing supplement.
Denominations: Unless otherwise specified in the relevant pricing supplement, each note will be issued in denominations of $1,000 and integral multiples of $1,000.
Monitoring Method: As specified in the relevant pricing supplement, as further described below.
Monitoring Period: As specified in the relevant pricing supplement. For example, the Monitoring Period may (a) include the period from pricing date through the final valuation date, (b) be limited to the final valuation date or (c) be of any other length set forth in the relevant pricing supplement.
Automatic Call: As specified in the relevant pricing supplement, as further described below.
Payment at Maturity: Payment at maturity will be based on the performance of the applicable Reference Stock. For each $1,000 principal amount of the notes, you will receive $1,000 plus any accrued and unpaid interest at maturity, unless:

(i) the Final Reference Stock Price is less than the Initial Reference Stock Price; and
(ii) (a) for notes subject to Intra-Day Monitoring, at any time during the Monitoring Period, the price of the Reference Stock quoted on the relevant exchange is less than the applicable Barrier Price, or
   (b) for notes subject to Close of Trading Day Monitoring, on any trading day during the Monitoring Period, the closing price of the Reference Stock is less than the Barrier Price.

If the events described in (i) and (ii) both occur, at maturity you will receive, instead of the principal amount of the notes, the number of shares of the Reference Stock equal to the Physical Delivery Amount, as calculated below, or, at our election, the Cash Delivery Amount, as calculated below. You will also receive at maturity any accrued and unpaid interest on the notes. If we deliver shares of the Reference Stock, fractional shares will be paid in cash.

The market value of the Physical Delivery Amount or the cash value will most likely be less than the principal amount of the notes, and may be zero.

The relevant pricing supplement will specify the Monitoring Method applicable to the notes, and will specify Intra-Day Monitoring, Close of Trading Day Monitoring, or another method for monitoring the Reference Stock. For example, the relevant pricing supplement may specify weekly Reference Stock monitoring for purposes of determining whether the price of the Reference Stock has decreased to a level below the Barrier Price.

Physical Delivery Amount: Unless otherwise specified in the relevant pricing supplement, for each $1,000 principal amount of notes, the Physical Delivery Amount shall be equal to the number of shares of the Reference Stock determined by dividing $1,000 by the Initial Reference Stock Price. The Initial Reference Stock Price is subject to adjustment based upon certain corporate events that may affect the issuer of the Reference Stock, as described below.
Cash Delivery Amount: The amount in cash equal to the value of the Physical Delivery Amount. Unless otherwise specified in the relevant pricing supplement, the Cash Delivery Amount will equal the product of the Physical Delivery Amount, as calculated above, multiplied by the Final Reference Stock Price.

Automatic Call Provisions: If the Automatic Call feature is specified in the relevant pricing supplement as being “Applicable,” then the following provisions will apply to the notes:

Automatic Call: If, on the Call Date, the closing price of the applicable Reference Stock is greater than the Call Price, then the notes will be automatically called.

Payment if Called: If the notes are automatically called, then, on the Call Settlement Date, for each $1,000 principal amount, you will receive $1,000 plus any accrued and unpaid interest to but excluding the Call Settlement Date.

Call Price: As specified in the relevant pricing supplement.

Call Date(s): As specified in the relevant pricing supplement.

Call Settlement Date: As specified in the relevant pricing supplement.

Initial Reference Stock Price: As specified in the relevant pricing supplement.

Final Reference Stock Price: The closing price of one share of the Reference Stock on the valuation date or the arithmetic average of the closing prices of the Reference Stock on each of more than one valuation dates, or any other dates specified in the relevant pricing supplement, subject to anti-dilution adjustment.

Barrier Price: As specified in the relevant pricing supplement. For example, the relevant pricing supplement may specify that the Barrier Price is equal to 80% of the Initial Reference Stock Price.

Valuation Date(s): The Final Reference Stock Price will be determined on one or more valuation dates, as specified in the relevant pricing supplement. Unless otherwise specified in the relevant pricing supplement, the valuation date (if there is one valuation date) or the final valuation date (if there is more than one valuation date) will be the third trading day prior to the maturity date, subject to extension for up to ten trading days if a market disruption event occurs.

Maturity Date: As specified in the relevant pricing supplement, subject to any prior automatic call, if applicable.

Record Dates: Unless otherwise specified in the relevant pricing supplement, five business days before each interest payment date.

Clearance and Settlement: DTCC global (including through its indirect participants Euroclear and Clearstream, Luxembourg, as described under “Description of Debt Securities — Ownership and Book-Entry Issuance” in the accompanying prospectus).

No Non-U.S. Distribution: The notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and the underwriter will not make offers of the notes to any such investor.

Listing: The notes will not be listed on any securities exchange or quotation system.

Calculation Agent: RBC Capital Markets Corporation.
ADDITIONAL RISK FACTORS SPECIFIC TO YOUR NOTES

An investment in your notes is subject to the risks described below, as well as the risks described under “Risk Factors” in the prospectus and the prospectus supplement. Your notes are not secured debt and are riskier than ordinary unsecured debt securities. Also, investing in your notes is not equivalent to investing directly in the applicable Reference Stock. You should carefully consider whether the notes are suited to your particular circumstances. This product prospectus supplement should be read together with the prospectus, the prospectus supplement and the relevant pricing supplement. The information in the prospectus and prospectus supplement is supplemented by, and to the extent inconsistent therewith replaced and superseded by, the information in this product prospectus supplement and the relevant pricing supplement. This section describes the most significant risks relating to the terms of the notes. We urge you to read the following information about these risks, together with the other information in this product prospectus supplement and the prospectus, the prospectus supplement and the relevant pricing supplement, before investing in the notes.

Your Investment in the Notes May Result in a Loss.

Unless otherwise set forth in the applicable pricing supplement, the notes do not guarantee any return of principal. The return of your principal at maturity is only protected if (a) the Final Reference Stock Price is greater than or equal to the Initial Reference Stock Price, and (b) if the Final Reference Stock Price is less than the Initial Reference Stock Price, the price of the Reference Stock did not decrease to a trading price or a closing price (as applicable) below the Barrier Price during the Monitoring Period. If the Final Reference Stock Price is less than the Initial Reference Stock Price, and during the Monitoring Period, either the closing price or trading price (as applicable) of the Reference Stock decreased below the Barrier Price, you will receive at maturity a number of shares of the Reference Stock equal to the Physical Delivery Amount (or at our election, the cash value of those shares). The value of the shares or cash will most likely be less than the principal amount of your notes, and may be zero. Accordingly, you may lose the entire principal amount of your notes.

You Will Not Benefit from any Appreciation in the Reference Stock above the Initial Reference Stock Price, and You Should Not Expect to Receive a Payment at Maturity or upon an Automatic Call with a Value Greater than Your Principal Amount, Plus Accrued and Unpaid Interest.

At maturity or upon an automatic call, you will receive no more than the principal amount of your notes plus accrued and unpaid interest. The total of the payments that you receive over the term of the notes will not exceed the principal amount of your notes plus interest. Even if the Final Reference Stock Price exceeds the Initial Reference Stock Price, you will receive only the principal amount of the notes, despite the appreciation in the value of the Reference Stock.

Your Yield May Be Lower than the Yield on a Standard Debt Security of Comparable Maturity.

The yield that you will receive on your notes, which could be negative, may be less than the return you could earn on other investments.

There May Not Be an Active Trading Market for the Notes—Sales in the Secondary Market May Result in Significant Losses.

There may be little or no secondary market for the notes. The notes will not be listed on any securities exchange. RBC Capital Markets Corporation and other affiliates of Royal Bank may make a market for the notes; however, they are not required to do so. RBC Capital Markets Corporation or any other affiliate of Royal Bank may stop any market-making activities at any time. Even if a secondary market for the notes develops, it may not provide significant liquidity or trade at prices advantageous to you. We expect that transaction costs in any secondary market would be high. As a result, the difference between bid and asked prices for your notes in any secondary market could be substantial.
If you sell your notes before maturity, you may have to do so at a substantial discount from the issue price, and as a result, you may suffer substantial losses.

**Owning the Notes Is Not the Same as Owning the Reference Stock or a Security Directly Linked to the Performance of the Reference Stock.**

The return on your notes will not reflect the return you would realize if you actually owned the Reference Stock or its components or a security directly linked to the performance of the Reference Stock and held that investment for a similar period because:

- the maximum return on your notes will be limited to the payment of the principal amount, plus accrued and unpaid interest; and
- your notes may be subject to automatic redemption if the market price of the Reference Stock reaches a price set forth in the applicable pricing supplement.

Your notes may trade quite differently from the Reference Stock. Changes in the price of the Reference Stock may not result in comparable changes in the market value of your notes. Even if the price of the Reference Stock increases from the Initial Reference Stock Price during the term of the notes, the market value of the notes prior to maturity may not increase to the same extent. It is also possible for the market value of the notes prior to maturity to decrease while the price of the Reference Stock increases.

**The Market Value of Your Notes May Be Influenced by Many Unpredictable Factors.**

The following factors, which are beyond our control, may influence the market value of your notes:

- the market price of the Reference Stock, including whether it trades or closes below the applicable Barrier Price during the Monitoring Period;
- the likelihood of an automatic call, if your notes are subject to an automatic call;
- the volatility (i.e., the frequency and magnitude of changes) of the price of the Reference Stock;
- the proximity in time to the next interest payment;
- the dividend rate on the applicable Reference Stock or the stocks held by any Reference Stock that is an ETF;
- economic, financial, political, military, regulatory, legal and other events that affect the applicable securities markets generally and the U.S markets in particular, and which may affect the price of the Reference Stock;
- interest and yield rates in the market; and
- the time remaining to maturity of the notes.

These factors may influence the market value of your notes if you sell your notes before maturity. Our creditworthiness, as represented by our credit ratings or as otherwise perceived in the market will also affect the market value of your notes. If you sell your notes prior to maturity, you may receive less than the principal amount of your notes.
Payments on the Notes Are Subject to Our Credit Risk, and Changes in Our Credit Ratings Are Expected to Affect the Market Value of the Notes.

The notes are Royal Bank’s senior unsecured debt securities. As a result, your receipt of interest payments and the amount due on the maturity date, is dependent upon Royal Bank’s ability to repay its obligations at that time. This will be the case even if the price of the Reference Stock increases after the pricing date. No assurance can be given as to what our financial condition will be at any time during the term of the notes.

The Market Value of Your Notes May Decrease at an Accelerated Rate as the Market Price of the Reference Stock Approaches and Decreases Below the Barrier Price.

When the price of the Reference Stock on any trading day decreases from the Initial Reference Stock Price to a price near the Barrier Price for the first time, the market value of the notes may decrease at a greater rate than the market value of the Reference Stock. If the Reference Stock trades (in the case of Intra-Day monitoring) or closes (in the case of Close of Trading Day) at prices that are near or below the Barrier Price, we expect that the market value of the notes will decrease, to reflect the fact that you may receive at maturity shares of the Reference Stock or cash with a value that is less than the principal amount of your notes. All other factors remaining constant, the longer the Monitoring Period is for your notes, the more likely it will be that the Reference Stock will trade or close (as applicable) at a price that is less than the applicable Barrier Price.

The Amount of Shares or Cash to Be Paid at Maturity Will Not Be Affected by All Developments Relating to the Reference Stock.

Changes in the price of the Reference Stock during the term of the notes before the valuation date or valuation dates will not be reflected in the calculation of the payment at maturity, except to the extent that the Reference Stock trades or closes (as applicable) below the Barrier Price during the Monitoring Period, or to the extent that the notes are subject to an automatic call. The calculation agent will calculate the amount to be paid at maturity by comparing the Final Stock Reference Price to the Initial Stock Reference Price. As a result, you may receive shares or cash at maturity with a value that is less than the principal amount of your notes, even if the price of the Reference Stock has increased at certain times during the term of the notes before decreasing to a level below the Initial Stock Reference Price.

We Will Not Hold Any Shares of the Reference Stock for Your Benefit.

The indenture and the terms governing your notes do not contain any restriction on our ability or the ability of any of our affiliates to sell, pledge or otherwise convey all or any shares of the Reference Stock that we or they may acquire. Neither we nor our affiliates will pledge or otherwise hold any such shares for your benefit. Consequently, in the event of our bankruptcy, insolvency or liquidation, any of those assets that we own will be subject to the claims of our creditors generally and will not be available for your benefit specifically.

You Must Rely on Your Own Evaluation of the Merits of an Investment Linked to the Reference Stock.

In the ordinary course of their business, our affiliates may have expressed views on expected movements in any Reference Stock (or in the case of an ETF, the shares that it holds), and may do so in the future. These views or reports may be communicated to our clients and clients of our affiliates. However, these views are subject to change from time to time. Moreover, other professionals who transact business in markets relating to any Reference Stock may at any time have significantly different views from those of our affiliates. For these reasons, you are encouraged to derive information concerning the applicable Reference Stock from multiple sources, and you should not rely solely on views expressed by our affiliates.

Trading and Other Transactions by Royal Bank or its Affiliates Relating to the Reference Stock, Futures, Options, or Other Derivative Products May Adversely Affect the Market Value of the Notes.

As described below under “Use of Proceeds and Hedging,” we or one or more affiliates may hedge our obligations under the notes by purchasing or selling shares of the Reference Stock, futures or options relating to the
Reference Stock, or other derivative instruments with returns linked or related to changes in the performance of the Reference Stock. We or our affiliates may adjust these hedges by, among other things, purchasing or selling those assets at any time. Although they are not expected to, any of these hedging activities may adversely affect the price of the Reference Stock, and, therefore, the market value of the notes. It is possible that we or one or more of our affiliates could receive substantial returns from these hedging activities while the market value of the notes decreases.

We or one or more of our affiliates may also engage in trading relating to the Reference Stock on a regular basis as part of our general broker-dealer and other businesses, for proprietary accounts, for other accounts under management or to facilitate transactions for customers, including block transactions. Any of these activities could adversely affect the price of the Reference Stock and, therefore, the market value of the notes. We or one or more of our affiliates may also issue or underwrite other securities or financial or derivative instruments with returns linked or related to changes in the performance of the Reference Stock. By introducing competing products into the marketplace in this manner, we or one or more of our affiliates could adversely affect the market value of the notes.

The Inclusion in the Purchase Price of the Notes of a Selling Concession and of Our Cost of Hedging Our Market Risk under the Notes is Likely to Adversely Affect the Market Value of the Notes.

The price at which you purchase the notes includes a selling concession (including a broker’s commission), as well as the costs that we (or one of our affiliates) expect to incur in the hedging of our market risk under the notes. The hedging costs include the expected cost of undertaking this hedge, as well as the profit that we (or our affiliates) expect to realize in consideration for assuming the risks inherent in providing the hedge. As a result, 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 will likely be less than your original purchase price. We expect that this effect will be greater if it occurs earlier in the term of the notes than if it occurs later in the term of the notes.

The Business Activities of Royal Bank or Its Affiliates May Create Conflicts of Interest.

As noted above, we and our affiliates expect to engage in trading activities related to the Reference Stock that are not for the account of holders of the notes or on their behalf. These trading activities may present a conflict between the holders’ interests in the notes and the interests we and our affiliates will have in their proprietary accounts, in facilitating transactions, including options and other derivatives transactions, for their customers and in accounts under their management. These trading activities, if they influence the price of the Reference Stock, could be adverse to the interests of the holders of the notes. We and one or more of our affiliates may, at present or in the future, engage in business with the issuer of the applicable Reference Stock, or the component stocks of any index (an “Underlying Index”) that is tracked by a Reference Stock that is an ETF, including making loans to or providing advisory services to those companies. These services could include investment banking and merger and acquisition advisory services. These activities may present a conflict between our or one or more of our affiliates’ obligations and your interests as a holder of the notes. Moreover, we and our affiliates may have published, and in the future expect to publish, research reports that relate to the Reference Stock or the stocks held by an ETF that is a reference stock. This research is modified from time to time without notice and may express opinions or provide recommendations that are inconsistent with purchasing or holding the notes. Any of these activities by us or one or more of our affiliates may affect the price of the Reference Stock and, therefore, the market value of the notes.


The determination of the Final Reference Stock Price may be postponed if the calculation agent determines that a market disruption event has occurred or is continuing on a valuation date. If such a postponement occurs, the calculation agent will use the closing price of the Reference Stock on the first subsequent business day on which no market disruption event occurs or is continuing. In no event, however, will any valuation date be postponed by more than ten trading days. As a result, if a market disruption event occurs or is continuing on a valuation date, the maturity date for the notes could also be postponed, although not by more than ten trading days.

If the determination of the price of the Reference Stock for any valuation date is postponed to the last possible day, but a market disruption event occurs or is continuing on that day, that day will nevertheless be the date
on which the price of the Reference Stock will be determined by the calculation agent. In such an event, the calculation agent will make a good faith estimate in its sole discretion of the price that would have prevailed in the absence of the market disruption event. See “General Terms of the Notes—Market Disruption Events”.

There Are Potential Conflicts of Interest Between You and the Calculation Agent.

The calculation agent will, among other things, determine the amount of your payment at maturity on the notes. Our wholly-owned subsidiary, RBC Capital Markets Corporation, will serve as the calculation agent. We may change the calculation agent after the original issue date without notice to you. The calculation agent will exercise its judgment when performing its functions. For example, the calculation agent may have to determine whether a market disruption event affecting the Reference Stock has occurred. This determination may, in turn, depend on the calculation agent’s judgment whether the event has materially interfered with our ability or the ability of one of our affiliates to unwind our hedge positions. Since this determination by the calculation agent will affect the payment at maturity on the notes, the calculation agent may have a conflict of interest if it needs to make a determination of this kind.

Non-U.S. Investors May Be Subject to Certain Additional Risks.

The notes will be denominated in U.S. dollars. If you are a non-U.S. investor who purchases the notes with a currency other than U.S. dollars, changes in rates of exchange may have an adverse effect on the value, price or returns of your investment.

This product prospectus supplement contains a general description of certain U.S. and Canadian tax considerations relating to the notes. The notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and the underwriter will not make offers of the notes to any such investor. In the event you are a non-U.S. investor and subsequently acquire the notes, you should consult your tax advisors as to the consequences, under the tax laws of the country where you are resident for tax purposes, of acquiring, holding and disposing of the notes and receiving the payments that might be due under the notes.

Significant Aspects of the Tax Treatment of the Notes Are Uncertain.

The tax treatment of the notes is uncertain. We do not plan to request a ruling from the Internal Revenue Service or from any Canadian authorities regarding the tax treatment of the notes, and the Internal Revenue Service or a court may not agree with the tax treatment described in this product prospectus supplement. Please read carefully the sections entitled “Supplemental Discussion of U.S. Federal Income Tax Consequences” in this product prospectus supplement, the section “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.

A 30% U.S. Federal Withholding Tax Will Be Withheld on Interest Payments to Non-U.S. Holders.

The notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and the underwriter will not make offers of the notes to any such investor. In the event a non-U.S. holder subsequently acquires the notes, while the U.S. federal income tax treatment of the notes is uncertain, U.S. federal income tax at a 30% rate (or at a lower rate under an applicable income tax treaty) will be withheld in respect of the interest payments made to a non-U.S. holder unless such payments are effectively connected with the conduct by the non-U.S. holder of a trade or business in the United States (in which case, to avoid withholding, the non-U.S. holder will be required to provide a Form W-8ECI). We will not pay any additional amounts in respect of such withholding.

Please read carefully the sections entitled “Supplemental Discussion of U.S. Federal Income Tax Consequences” in this product prospectus supplement, the section “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.
Certain Considerations for Insurance Companies and Employee Benefit Plans.

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

Risks Relating to the Reference Stocks

You Will Not Have Any Shareholder Rights Prior to Maturity of the Notes.

Investing in your notes will not make you a holder of the Reference Stock unless and until the notes are converted into shares at maturity. Until any such conversion occurs, you will not have any voting rights, any right to receive dividends or other distributions or any other rights with respect to shares of the Reference Stocks.

The Issuer of the Reference Stock Will Not Have Any Role or Responsibilities with Respect to the Notes.

The issuer of the Reference Stock will not have authorized or approved the notes, and will not be involved in any offering. The issuer of the Reference Stock will not have any financial or legal obligation with respect to the notes or the amounts to be paid to you, including any obligation to take our needs or your needs into consideration for any reason, including taking any corporate actions that might affect the value of the Reference Stock or the notes. The Issuer of the Reference Stock will not receive any of the proceeds from any offering of the notes. No issuer of a Reference Stock will be responsible for, or participate in, the determination or calculation of the amounts receivable by holders of the notes.

An Investment in the Notes May Be Subject to Risks Associated with Non-U.S. Securities Markets.

The Reference Stock, or shares held by an ETF to which the notes are linked, may have been issued by one or more 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 country. 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 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.
We Do Not Control the Issuer of Any Reference Stock and Are Not Responsible for Any Disclosure Made by Any Other Company.

Neither we nor any of our affiliates have the ability to control the actions of any issuer of a Reference Stock, or the issuers of the shares that are held by a Reference Stock that is an ETF. We do not assume any responsibility for the adequacy or accuracy of any publicly available information about any of these companies, unless (and only to the extent that) our securities or the securities of our affiliates are represented by that Reference Stock. We are not responsible for any other issuer’s public disclosure of information on itself or the Reference Stock, whether contained in Securities Exchange Commission filings or otherwise. We will not perform any due diligence procedures with respect to the issuer of the applicable Reference Stock. You should make your own investigation into the issuer of the Reference Stock, or the issuers of the shares that are held by a Reference Stock that is an ETF.

You Will Have Limited Anti-Dilution Protection.

The calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and any Call Price for stock splits, reverse stock splits, stock dividends, extraordinary dividends and other events that affect the applicable issuer’s capital structure, but only in the situations we describe in “General Terms of the Notes—Anti-Dilution Adjustments Relating to a Reference Stock” below. The calculation agent will not be required to make an adjustment for every corporate event that may affect the relevant security. For example, the calculation agent will not make any adjustments for events such as an offering by the relevant issuer of equity securities, a tender or exchange offer for the issuer’s shares at a premium to its then-current market price by that issuer or a tender or exchange offer for less than all outstanding shares of that issuer by a third party. Those events or other actions by the applicable issuer or a third party may nevertheless adversely affect the price of the Reference Stock, and adversely affect the value of your notes.

The Historical Performance of the Reference Stock Should Not Be Taken as an Indication of Their Future Performance.

The price of the Reference Stock will determine the amount to be paid on the notes at maturity or whether the notes are subject to an automatic call. The historical performance of the Reference Stock does not necessarily give an indication of its future performance. As a result, it is impossible to predict whether the price of the Reference Stock will rise or fall during the term of the notes. The price of the Reference Stock will be influenced by complex and interrelated political, economic, financial and other factors.

Risks Relating to Reference Stocks that Are ADRs

The Value of the Reference Stock May Not Accurately Track the Value of the Common Shares of the Applicable Company.

If the Reference Stock is an ADR, each share of the Reference Stock will represent shares of the relevant company (an “Underlying Company”). The trading patterns of the ADRs will generally reflect the characteristics and valuations of the underlying common shares; however, the value of the ADRs may not completely track the value of those shares. Trading volume and pricing on the applicable non-U.S. exchange may, but will not necessarily, have similar characteristics as the ADRs. For example, certain factors may increase or decrease the public float of the ADRs and, as a result, the ADRs may have less liquidity or lower market value than the underlying common shares.

Adverse Trading Conditions in the Applicable Non-U.S. Market May Negatively Affect the Value of the Underlying Stock.

Holders of the Underlying Company’s ADRs may usually surrender the ADRs in order to receive and trade the underlying common shares. This provision permits investors in the ADRs to take advantage of price differentials between markets. However, this provision may also cause the market prices of the underlying stock to more closely correspond with the values of the common shares in the applicable non-U.S. markets. As a result, a
market outside of the U.S. for the underlying common shares that is not liquid may also result in an illiquid market for the ADRs.

**Additional Risks Relating to Exchange Traded Fund Reference Stocks**

**Changes that Affect an Underlying Index Will Affect the Market Value of the Notes and the Amount You Will Receive at Maturity.**

The policies of the applicable index sponsor concerning the calculation of the applicable index, additions, deletions or substitutions of the components of that index and the manner in which changes affecting those components, such as stock dividends, reorganizations or mergers, may be reflected in the index and, therefore, could affect the amount payable on the notes at maturity, and the market value of the notes prior to maturity. The amount 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 index, or if the index sponsor discontinues or suspends calculation or publication of the index, in which case it may become difficult to determine the market value of the notes.

**We Have No Affiliation with Any Index Sponsor and Will Not Be Responsible for Any Actions Taken by an Index Sponsor.**

Unless otherwise specified in the relevant pricing supplement, no index sponsor is an affiliate of ours or will be involved in any offerings of the notes in any way. Consequently, we have no control of the actions of any index sponsor, including any actions of the type that might impact the value of the notes. No 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 any issuance of the notes will be delivered to any index sponsor.

**There Are Liquidity and Management Risks Associated with an ETF.**

Although shares of an ETF that is a Reference Stock will be listed for trading on a securities exchange and a number of similar products have been traded on various exchanges for varying periods of time, there is no assurance that an active trading market will continue for the shares of the Reference Stock or that there will be liquidity in that trading market.

An ETF is subject to management risk, which is the risk that the investment adviser’s investment strategy, the implementation of which is subject to a number of constraints, may not produce the intended results.

**We Cannot Control Actions by the Investment Adviser which May Adjust the ETF in a Way that Could Adversely Affect the Payments on the Notes and Their Market Value, and the Investment Adviser Has No Obligation to Consider Your Interests.**

The policies of the applicable investment adviser concerning the calculation of the ETF’s net asset value, additions, deletions or substitutions of securities or other investments held by the ETF and the manner in which changes affecting the Underlying Index are reflected in the ETF could affect the market price per share of the Reference Stock and, therefore, the amounts payable on the notes and their market value. The amounts payable on the notes and their market value could also be affected if the investment adviser changes these policies, for example, by changing the manner in which it calculates the ETF’s net asset value, or if the investment adviser discontinues or suspends calculation or publication of the ETF’s net asset value, in which case it may become difficult to determine the value of your notes. If events such as these occur or if the closing price per share of the Reference Stock is not available on a valuation date, the calculation agent may determine the closing price per share of the Reference Stock on that valuation date; as a result, the calculation agent would determine the price of the Reference Stock in a manner it considers appropriate, in its sole discretion.
The Performance of the Reference Stock and the Performance of the Underlying Index May Vary.

The performance of the Reference Stock and that of its Underlying Index (or other underlying asset) generally will vary due to transaction costs, certain corporate actions and timing variances. If the Reference Stock maintains a “representative sampling” strategy as to an Underlying Index, the performance of the Reference Stock will differ to some degree from that of the Underlying Index.

In addition, because the shares of the Reference Stock are traded on a securities exchange and are subject to market supply and investor demand, the market value of one share of the Reference Stock may differ from its net asset value per share; shares of the Reference Stock may trade at, above, or below their net asset value per share.

For the foregoing reasons, the performance of the Reference Stock may not match the performance of the Underlying Index (or other underlying asset) over the same period. Because of this variance, the return on the notes to the extent dependent on the return of the Reference Stock may not be the same as an investment directly in the securities or other investments included in the underlying asset or the same as a debt security with a payment at maturity linked to the performance of the underlying asset.

Time Zone Differences Between the Cities Where the Underlying Asset and the Reference Stock Trade May Create Discrepancies in Trading Levels.

As a result of the time zone difference, if applicable, between the cities where the securities or commodities comprising the underlying asset trade and where the shares of the Reference Stock trade, there may be discrepancies between the values of the underlying asset and the market value of the notes. In addition, there may be periods when the foreign securities or commodities markets are closed for trading (for example, during holidays in a country other than the United States) that may result in the values of the underlying asset remaining unchanged for multiple trading days in the city where the shares of the Reference Stock trade. Conversely, there may be periods in which the applicable foreign securities or commodities markets are open, but the securities market on which the Reference Stock trades is closed.
GENERAL TERMS OF THE NOTES

Please note that in this section entitled “General Terms of the Notes”, references to “holders” mean those who own notes registered in their own names, on the books that we or the trustee maintain for this purpose, and not those who own beneficial interests in notes registered in street name or in notes issued in book-entry form through The Depository Trust Company (“DTC”) or another depositary. Owners of beneficial interests in the notes should read the section entitled “Description of the Notes We May Offer — Legal Ownership” in the accompanying prospectus supplement and “Description of Debt Securities — Ownership and Book-Entry Issuance” in the accompanying prospectus.

In addition to the terms described in the “Summary” section above, the following general terms will apply to the notes, including your notes:

Specified Currency

Unless otherwise specified in the relevant pricing supplement and unless we deliver shares of the Reference Stock at maturity, all payments of principal and interest will be made in U.S. dollars (“$”).

Form and Denomination

The notes will be issued only in global form through DTC. Unless otherwise specified in the relevant pricing supplement, the denomination of each note will be $1,000 and integral multiples in excess of $1,000.

No Listing

Your notes will not be listed on any securities exchange.

Defeasance, Default Amount, Other Terms

Neither full defeasance nor covenant defeasance will apply to your notes. The following will apply to your notes:

- the default amount will be payable on any acceleration of the maturity of your notes as described under “— Special Calculation Provisions” below;
- anti-dilution provisions will apply to your notes as described under “— Anti-dilution Adjustments” below;
- a business day for your notes will have the meaning described under “— Special Calculation Provisions” below; and
- a trading day for your notes will have the meaning described under “— Special Calculation Provisions” below.

Please note that the information about the settlement or pricing date, issue price discounts or commissions and net proceeds to Royal Bank in the relevant pricing supplement relates only to the initial issuance and sale of your notes. If you have purchased your notes in a market-making transaction after the initial issuance and sale, any such relevant information about the sale to you will be provided in a separate confirmation of sale.

Reference Stock and Reference Stock Issuer

In this product prospectus supplement, when we refer to the Reference Stock, we mean the shares of the Reference Stock specified in the relevant pricing supplement, and when we refer to the Reference Stock issuer, we
mean that issuer, except as described under “— Anti-dilution Adjustments — Reorganization Events” and “— Anti-
dilution Adjustments — Distribution Property” below. The Reference Stock may consist of ADRs or the shares of an ETF.

**Automatic Call**

If the Automatic Call feature is specified in the relevant pricing supplement as being “Applicable,” then the following provisions shall apply to the notes.

**Payment at Maturity**

At maturity, you will receive $1,000 for each $1,000 in principal amount of the notes, plus any accrued and unpaid interest unless, as determined by the Calculation Agent, the Final Reference Stock Price is less than the Initial Reference Stock Price and

- at any time during the Monitoring Period, the price of the Reference Stock quoted on the relevant exchange is less than the Barrier Price, or
- on any day during the Monitoring Period, the Closing Price of the Reference Stock is less than the Barrier Price.

Or if your note is monitored by a different method, that method will be specified in the relevant pricing supplement, as well as the conditions of payment at maturity.

If both of the above mentioned conditions are met, we will deliver to you a number of shares of the Reference Stock equal to the Physical Delivery Amount, calculated as described below. At our election, we may deliver to you the cash value of those shares (the “Cash Delivery Amount”) which will be calculated as described below. You will also receive any accrued and unpaid interest.

**Calculating the Physical Delivery Amount**

In order to determine the number of shares of the Reference Stock to be delivered for each $1,000 in principal amount of the notes, we will divide $1,000 by the Initial Reference Stock Price.

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\text{Physical Delivery Amount} = \frac{$1,000}{\text{Initial Reference Stock Price}}
\]

Any fractional shares will be paid in cash, in an amount equal to that fraction multiplied by the Final Reference Stock Price. If we choose to deliver shares of the Reference Stock, we will notify the holder at least one business day before the valuation date or final valuation date, as applicable. The number of shares or the amount of cash that we may deliver to you is subject to adjustment, as described below under “— Anti-dilution Adjustments” and “— Consequences of Market Disruption Events”.

The cash or market price of the shares you receive in exchange for your notes at maturity likely will be less than the principal amount of your notes.

**Cash Delivery Amount**

At our election, instead of delivering to you shares of the Reference Stock equal to the Physical Delivery Amount, we may deliver to you the Cash Delivery Amount.
In order to determine the Cash Delivery Amount, we will multiply the Final Reference Stock Price by the Physical Delivery Amount.

\[
\text{Cash Delivery Amount} = \text{Final Reference Stock Price} \times \text{Physical Delivery Amount}
\]

The Final Reference Stock Price will be the closing price of one share of the Reference Stock on the valuation date, or the arithmetic average of the closing prices of the Reference Stock on each of the valuation dates, or any other dates specified in the relevant pricing supplement, as applicable, subject to anti-dilution adjustment. The Initial Reference Stock Price, which will be specified in the relevant pricing supplement, may be adjusted, with respect to both the amount and type of consideration, as a result of dilution events, as we describe below under “— Anti-dilution Adjustments”.

**Valuation Date**

Unless otherwise specified in the relevant pricing supplement, the valuation date (if there is only one valuation date applicable to the notes) or the final valuation date (if there is more than one valuation date applicable to the notes) will be the third trading day before the maturity date specified in the relevant pricing supplement. If the calculation agent determines that a market disruption event occurs or is continuing on any valuation date applicable to the notes, the Final Level will be determined according to the calculation in “—Market Disruption Events” below.

**Maturity Date**

Unless otherwise specified in the relevant pricing supplement, the maturity date will be the third scheduled business day following the valuation date or the final valuation date, as applicable, unless that date is not a business day, in which case the maturity date will be the next following business day. The maturity date will be postponed by the same number of trading days as the valuation date or the final valuation date, as applicable, if a market disruption event occurs or is continuing as described above. No interest will accrue past the maturity date specified in the relevant pricing supplement.

**Consequences of Market Disruption Events**

If the calculation agent determines that, on a valuation date and/or, if the Automatic Call feature is specified in the relevant pricing supplement as being “Applicable,” on the call date, a market disruption event has occurred or is continuing with respect to the Reference Stock, the determination of the Final Reference Stock Price and/or, if applicable, the closing price of the applicable Reference Stock, may be postponed. If such a postponement occurs, the calculation agent will use the closing price of the Reference Stock on the first subsequent trading day on which no market disruption event occurs or is continuing. However, in no event will the determination of the Final Reference Stock Price and/or, if applicable, the closing price of the applicable Reference Stock, be postponed by more than ten trading days.

If the determination of the Final Reference Stock Price and/or, if applicable, the closing price of the applicable Reference Stock, is postponed to the last possible day, but a market disruption event for the Reference Stock occurs or is continuing on that day, that day will be the date on which the Final Reference Stock Price and/or, if applicable, the closing price of the applicable Reference Stock, will be determined by the calculation agent. In such an event, the calculation agent will make a good faith estimate in its sole discretion of the Final Reference Stock Price and/or, if applicable, the closing price of the applicable Reference Stock, that would have prevailed in the absence of the market disruption event.
Any of the following will be a market disruption event:

- a suspension, absence or limitation of trading in (i) that security in its primary market, as determined by the calculation agent, or (ii) futures or options contracts relating to that security in the primary market for those contracts, as determined by the calculation agent;

- any event that disrupts or impairs, as determined by the calculation agent, the ability of market participants to (i) effect transactions in, or obtain market values for, the security in its primary market, or (ii) effect transactions in, or obtain market values for, futures or options contracts relating the security in its primary market;

- the closure on any day of the primary market for that security on a scheduled trading day prior to the scheduled weekday closing time of that market (without regard to after hours or any other trading outside of the regular trading session hours) unless such earlier closing time is announced by the primary market at least one hour prior to the earlier of (i) the actual closing time for the regular trading session on such primary market on such scheduled trading day for such primary market and (ii) the submission deadline for orders to be entered into the relevant exchange system for execution at the close of trading on such scheduled trading day for such primary market;

- any scheduled trading day on which (i) the primary market for that security or (ii) the exchanges or quotation systems, if any, on which futures or options contracts on that security are traded, fails to open for trading during its regular trading session; or

- any other event, if the calculation agent determines that the event interferes with our ability or the ability of any of our affiliates to unwind all or a portion of a hedge with respect to the notes that we or our affiliates have effected or may effect as described below under “Use of Proceeds and Hedging” in this product prospectus supplement.

**Interest Payments**

Interest will accrue on the principal amount of your notes and will be calculated and paid as described in the accompanying prospectus with regard to fixed rate notes, as modified by the pricing supplement. The interest payment dates will be those specified in the relevant pricing supplement. As long as your notes are in global form, the regular record date for each interest payment date will be the fifth preceding business day, unless otherwise specified in the relevant pricing supplement. If the maturity date does not occur on the date specified in the relevant pricing supplement, however, the interest payment date scheduled for that date will instead occur on the maturity date.

**Automatic Call**

If, on the Call Date, the closing price of the applicable Reference Stock is greater than the Call Price, then the notes will be automatically called.

**Payment if Called**

If the notes are automatically called, then, on the Call Settlement Date, for each $1,000 in principal amount, you will receive $1,000 plus any accrued and unpaid interest to but excluding the Call Settlement Date.

**Call Date**

The call date will be the date specified in the relevant pricing supplement, unless the calculation agent determines that a market disruption event occurs or is continuing on that day. If a market disruption event occurs, then the call date will be the first following trading day on which the calculation agent determines that a market disruption event is not continuing. We describe market disruption events under “— Consequences of Market Disruption Events” below.
Call Settlement Date

The call settlement date will be the third business day after the call date. The call settlement date will be postponed by the same number of business days as the call date, if the call date is postponed due to a market disruption event.

Call Price

The Call Price will be as specified in the relevant pricing supplement.

Anti-dilution Adjustments

The Initial Reference Stock Price, the Barrier Price and the Call Price (if applicable) will be specified in the relevant pricing supplement. The calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price if any of the dilution events described below occurs with respect to the Reference Stock.

The calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price as described below, but only if an event below under this section occurs with respect to the Reference Stock and only if the relevant event occurs during the period described under the applicable subsection. The Initial Reference Stock Price, the Barrier Price and the Call Price will be subject to the adjustments described below, independently and separately, with respect to the dilution events that affect the Reference Stock.

If more than one anti-dilution event requiring adjustment occurs with respect to the Initial Reference Stock Price, the Barrier Price and the Call Price the calculation agent will adjust that Initial Reference Stock Price, the Barrier Price and the Call Price for each event, sequentially, in the order in which the events occur, and on a cumulative basis. Therefore, having adjusted the Initial Reference Stock Price, the Barrier Price and the Call Price for the first event, the calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price for the second event, applying the required adjustment to the Initial Reference Stock Price, the Barrier Price and the Call Price as already adjusted for the first event, and so on for each event. If an event requiring an anti-dilution adjustment occurs, the calculation agent will make the adjustment with a view to offsetting, to the extent practical, any change in the economic position of the holder and us, relative to your note, that results solely from that event. The calculation agent may, in its sole discretion, modify the anti-dilution adjustments as necessary to ensure an equitable result.

Stock Splits and Stock Dividends

A stock split is an increase in the number of a corporation’s outstanding shares of stock without any change in its stockholders’ equity. When a corporation pays a stock dividend, it issues additional shares of its stock to all holders of its outstanding stock in proportion to the shares they own. Each outstanding share will be worth less as a result of a stock split or stock dividend.

If the Reference Stock is subject to a stock split or receives a stock dividend, then the calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price by dividing the prior Initial Reference Stock Price — that is, the Initial Reference Stock Price, the Barrier Price and the Call Price before the stock split or stock dividend — by the number equal to: (1) the number of shares of the Reference Stock outstanding immediately after the stock split or stock dividend becomes effective; divided by (2) the number of shares of the Reference Stock outstanding immediately before the stock split or stock dividend becomes effective. The Initial Reference Stock Price, the Barrier Price and the Call Price will not be adjusted, however, unless:

- in the case of a stock split, the first day on which the Reference Stock trades without the right to receive the stock split occurs after the pricing date and on or before the applicable valuation date or call date; or

- in the case of a stock dividend, the ex-dividend date occurs after the pricing date and on or before the applicable valuation date or call date.
The ex-dividend date for any dividend or other distribution with respect to the Reference Stock is the first day on which the Reference Stock trades without the right to receive that dividend or other distribution.

Reverse Stock Splits

A reverse stock split is a decrease in the number of a corporation’s outstanding shares of stock without any change in its stockholders’ equity. Each outstanding share will be worth more as a result of a reverse stock split.

If the Reference Stock is subject to a reverse stock split, then the calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price by multiplying the prior Initial Reference Stock Price, the Barrier Price and the Call Price by a number equal to: (1) the number of shares of the Reference Stock outstanding immediately before the reverse stock split becomes effective; divided by (2) the number of shares of the Reference Stock outstanding immediately after the reverse stock split becomes effective. The Initial Reference Stock Price, the Barrier Price and the Call Price will not be adjusted, however, unless the reverse stock split becomes effective after the pricing date and on or before the applicable valuation date or call date.

Extraordinary Dividends

Any distribution or dividend on the Reference Stock determined by the calculation agent to be a distribution or dividend that is not in the ordinary course of the issuer’s historical dividend practices will be deemed to be an extraordinary dividend. The calculation agent will determine if the dividend is an extraordinary dividend and, if so, the amount of the extraordinary dividend. Each outstanding share will be worth less as a result of an extraordinary dividend.

If any extraordinary dividend occurs with respect to the Reference Stock, the calculation agent will adjust the Initial Reference Stock Price, the Barrier Price and the Call Price to equal the product of: (1) the prior Initial Reference Stock Price, the Barrier Price and the Call Price, times (2) a fraction, the numerator of which is the amount by which the closing price of the Reference Stock on the business day before the ex-dividend date exceeds the extraordinary dividend amount and the denominator of which is the closing price of the Reference Stock on the business day before the ex-dividend date. The Initial Reference Stock Price, the Barrier Price and the Call Price will not be adjusted, however, unless the ex-dividend date occurs after the pricing date and on or before the applicable valuation date or call date.

The extraordinary dividend amount with respect to an extraordinary dividend for the Reference Stock equals:

- for an extraordinary dividend that is paid in lieu of a regular quarterly dividend, the amount of the extraordinary dividend per share of the Reference Stock minus the amount per share of the immediately preceding dividend, if any, that was not an extraordinary dividend for the Reference Stock; or

- for an extraordinary dividend that is not paid in lieu of a regular quarterly dividend, the amount per share of the extraordinary dividend.

To the extent an extraordinary dividend is not paid in cash, the value of the non-cash component will be determined by the calculation agent. A distribution on the Reference Stock that is a stock dividend, an issuance of transferable rights or warrants or a spin-off event and also an extraordinary dividend will result in an adjustment to the Initial Reference Stock Price, the Barrier Price and the Call Price only as described under “— Stock Splits and Stock Dividends” above, “— Transferable Rights and Warrants” below or “— Reorganization Events” below, as the case may be, and not as described here.

Transferable Rights and Warrants

If the issuer of the Reference Stock issues transferable rights or warrants to all holders of the Reference Stock to subscribe for or purchase the Reference Stock at an exercise price per share that is less than the closing
price of the Reference Stock on the business day before the ex-dividend date for the issuance, then the applicable Initial Reference Stock Price, the Barrier Price and the Call Price will be adjusted by multiplying the prior Initial Reference Stock Price, the Barrier Price and the Call Price by the following fraction:

- the numerator will be the number of shares of the Reference Stock outstanding at the close of business on the day before that ex-dividend date plus the number of additional shares of the Reference Stock that the aggregate offering price of the total number of shares of the Reference Stock so offered for subscription or purchase pursuant to the transferable rights or warrants could purchase at the closing price on the business day before the ex-dividend date, with that number of additional shares being determined by multiplying the total number of shares so offered by the exercise price of those transferable rights or warrants and dividing the resulting product by the closing price on the business day before that ex-dividend date.

- the denominator will be the number of shares of the Reference Stock outstanding at the close of business on the day before that ex-dividend date plus the number of additional shares of the Reference Stock offered for subscription or purchase under those transferable rights or warrants.

The Initial Reference Stock Price, the Barrier Price and the Call Price will not be adjusted, however, unless the ex-dividend date described above occurs after the pricing date and on or before the applicable valuation date or call date.

Reorganization Events

If the issuer of the Reference Stock undergoes a reorganization event in which property other than the Reference Stock—e.g., cash and securities of another issuer—is distributed in respect of the Reference Stock, then, for purposes of calculating the price of the Reference Stock, the calculation agent will determine the closing price of the Reference Stock on the valuation date to equal the value of the cash, securities and other property distributed in respect of one share of the Reference Stock.

If the calculation agent determines that, by valuing such cash, securities and other property, a commercially reasonable result is not achieved, then the calculation agent will, in its sole discretion, substitute another stock for that Reference Stock.

Each of the following is a reorganization event with respect to the Reference Stock:

- the Reference Stock is reclassified or changed;

- the issuer of the Reference Stock has been subject to a merger, consolidation or other combination and either is not the surviving entity or is the surviving entity but all the outstanding stock is exchanged for or converted into other property;

- a statutory share exchange involving the outstanding stock and the securities of another entity occurs, other than as part of an event described in the two bullet points above;

- the issuer of the Reference Stock sells or otherwise transfers its property and assets as an entirety or substantially as an entirety to another entity;

- the issuer of the Reference Stock effects a spin-off—that is, issues to all holders of the Reference Stock equity securities of another issuer, other than as part of an event described in the four bullet points above;

- the issuer of the Reference Stock is liquidated, dissolved or wound up or is subject to a proceeding under any applicable bankruptcy, insolvency or other similar law; or
• another entity completes a tender or exchange offer for all of the outstanding stock of the issuer of the Reference Stock.

Valuation of Distribution Property

If a reorganization event occurs with respect to the Reference Stock, and the calculation agent does not substitute another stock for the Reference Stock as described in “— Substitution” below, then the calculation agent will determine the applicable closing price on each valuation date so as to equal the value of the property — whether it be cash, securities or other property — distributed in the reorganization event in respect of one share of the Reference Stock, as the Reference Stock existed before the date of the reorganization. We refer to the property distributed in a reorganization event as distribution property, a term we describe in more detail below. The calculation agent will not make any determination for a reorganization event, however, unless the event becomes effective (or, if the event is a spin-off, unless the ex-dividend date for the spin-off occurs) after the pricing date and on or before the applicable valuation date or call date.

For the purpose of making a determination required by a reorganization event, the calculation agent will determine the value of each type of distribution property, in its sole discretion. For any distribution property consisting of a security, the calculation agent will use the closing price for the security on the relevant date. The calculation agent may value other types of property in any manner it determines, in its sole discretion, to be appropriate. If a holder of the Reference Stock may elect to receive different types or combinations of types of distribution property in the reorganization event, the distribution property will consist of the types and amounts of each type distributed to a holder that makes no election, as determined by the calculation agent in its sole discretion.

If a reorganization event occurs and the calculation agent adjusts the closing price of the Reference Stock on a valuation date to equal the value of the distribution property distributed in the event, as described above, the calculation agent will make further determinations for later events that affect the distribution property considered in determining the closing price. The calculation agent will do so to the same extent that it would make determinations if the Reference Stock were outstanding and were affected by the same kinds of events.

For example, if the issuer of the Reference Stock merges into another company and each share of the Reference Stock is converted into the right to receive two common shares of the surviving company and a specified amount of cash, then on each valuation date the closing price of a share of the Reference Stock will be determined to equal the value of the two common shares of the surviving company plus the specified amount of cash. The calculation agent will further determine the common share component of such closing price to reflect any later stock split or other event, including any later reorganization event, that affects the common shares of the surviving company, to the extent described in “— Anti-Dilution Adjustments” or as described above in this “— Reorganization Events” section as if the common shares were the Reference Stock. In that event, the cash component will not be redetermined but will continue to be a component of the closing price.

When we refer to distribution property, we mean the cash, securities and other property distributed in a reorganization event in respect of the Reference Stock or in respect of whatever securities whose value determines the closing price on a valuation date if any adjustment resulting from a reorganization event has been made in respect of a prior event. In the case of a spin-off, the distribution property also includes the Reference Stock in respect of which the distribution is made.

If a reorganization event occurs, the distribution property distributed in the event will be substituted for the Reference Stock as described above. Consequently, in this product prospectus supplement, when we refer to the Reference Stock, we mean any distribution property that is distributed in a reorganization event in respect of the Reference Stock. Similarly, when we refer to the issuer of the Reference Stock, we mean any successor entity in a reorganization event.

Substitution

If the calculation agent determines that a commercially reasonable result is not achieved by valuing distribution property with respect to the Reference Stock upon becoming subject to a reorganization event, then the
calculation agent will, in its sole discretion, substitute another stock for the Reference Stock. In such case, the adjustments described above in “— Valuation of Distribution Property” will not apply.

If the calculation agent so determines, it may choose, in its sole discretion, the stock of a different company listed on a national securities exchange or quotation system as a substitute for the Reference Stock. For all purposes, the substitute stock will be deemed to be a stock for purposes hereof.

The calculation agent will determine, in its sole discretion, the Initial Reference Stock Price, the Barrier Price and the Call Price and/or the manner of valuation of the substitute stock. The calculation agent will have the right to make such adjustments to the calculation of the individual stock performance as it determines in its sole discretion are necessary to preserve as nearly as possible our and your relative economic position prior to the reorganization event.

Adjustments Relating to ADRs

The Reference Stock may consist of ADRs of the Underlying Company. As a result, for purposes of this section, the calculation agent will consider the effect of any of the relevant events on the holders of the Reference Stock. For example, if a holder of the Reference Stock receives an extraordinary dividend, the provisions described in this section would apply to the Reference Stock. On the other hand, if a spin-off occurs, and the Reference Stock represents both the spun-off security as well as the existing Reference Stock, the calculation agent may determine not to effect the anti-dilution adjustments set forth in this section. More particularly, the calculation agent may not make an adjustment (1) if holders of the Reference Stock are not eligible to participate in any of the events that would otherwise require anti-dilution adjustments as set forth in this section or (2) to the extent that the calculation agent determines that the Underlying Company or the depositary for the ADRs has adjusted the number of common shares of the Underlying Company represented by each share of Reference Stock so that the market price of the Reference Stock would not be affected by the corporate event in question.

If the Underlying Company or the depository for the ADRs, in the absence of any of the events described in this section, elects to adjust the number of common shares of the Underlying Company represented by each share of Reference Stock, then the calculation agent may make the appropriate anti-dilution adjustments to reflect such change. The depository for the ADRs may also make adjustments in respect of the ADRs for share distributions, rights distributions, cash distributions and distributions other than shares, rights, and cash. Upon any such adjustment by the depository, the calculation agent may adjust such terms and conditions of the notes as the calculation agent determines appropriate to account for that event.

Other Events and Adjustments

The calculation agent may make such adjustments to the terms of the notes with respect to any of the events described above, as it deems in its discretion is necessary to ensure an equitable result.

Delisting of ADRs or Termination of ADR Facility

If the Reference Stock is no longer listed or admitted to trading on a U.S. securities exchange registered under the Exchange Act or included in the OTC Bulletin Board Service operated by FINRA, or if the ADR facility between the Underlying Company and the ADR depositary is terminated for any reason, then, on and after the date that the Reference Stock is no longer so listed or admitted to trading or the date of such termination, as applicable (the “termination date”), the notes will be deemed to be linked to the common shares of the Underlying Company, and the calculation agent will determine the payment at maturity by reference to such common shares. Under such circumstances, the calculation agent may modify any terms of the notes as it deems necessary, in its sole discretion, to ensure an equitable result. On and after the termination date, for all purposes, including the determination of the Final Reference Stock Price, the closing price of the Underlying Company’s common shares on their primary exchange will be converted to U.S. dollars using such exchange rate as the calculation agent, in its sole discretion, determines to be commercially reasonable.
Payment of Additional Amounts

We will pay any amounts to be paid by us on the notes without deduction or withholding for, or on account of, any and all present or future income, stamp and other taxes, levies, imposts, duties, charges, fees, deductions or withholdings ("taxes") now or hereafter imposed, levied, collected, withheld or assessed by or on behalf of Canada or any Canadian political subdivision or authority that has the power to tax, unless the deduction or withholding is required by law or by the interpretation or administration thereof by the relevant governmental authority. At any time a Canadian taxing jurisdiction requires us to deduct or withhold for or on account of taxes from any payment made under or in respect of the notes, we will pay such additional amounts ("Additional Amounts") as may be necessary so that the net amounts received by each holder (including Additional Amounts), after such deduction or withholding, shall not be less than the amount the holder would have received had no such deduction or withholding been required.

However, no Additional Amounts will be payable with respect to a payment made to a holder of a note, which we refer to as an “Excluded Holder”, in respect of a beneficial owner:

(i) with which we do not deal at arm’s length (within the meaning of the Income Tax Act (Canada)) at the time of making such payment;

(ii) which is subject to such taxes by reason of its being connected presently or formerly with Canada or any province or territory thereof otherwise than by reason of the holder’s activity in connection with purchasing the notes, the holding of notes or the receipt of payments thereunder;

(iii) which presents such note for payment (where presentation is required) more than 30 days after the relevant date (except to the extent that the holder thereof would have been entitled to such Additional Amounts on presenting a note for payment on the last day of such 30 day period); for this purpose, the “relevant date” in relation to any payments on any note means:

(a) the due date for payment thereof, or

(b) if the full amount of the monies payable on such date has not been received by the trustee on or prior to such due date, the date on which the full amount of such monies has been received and notice to that effect is given to holders of the notes in accordance with the indenture; or

(iv) who could lawfully avoid (but has not so avoided) such withholding or deduction by complying, or procuring that any third party comply with, any statutory requirements or by making, or procuring that any third party make, a declaration of non-residence or other similar claim for exemption to any relevant tax authority.

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

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

For additional information, see the section entitled “Supplemental Discussion of Canadian Tax Consequences".

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Default Amount on Acceleration

Unless otherwise specified in the relevant pricing supplement, in case an event of default with respect to the notes shall have occurred and be continuing, the amount declared due and payable on the notes upon any acceleration of the notes will be determined by the calculation agent and will be an amount in shares of the Reference Stock or cash equal to the amount payable as described under the caption “— Payment at Maturity,” calculated as if the date of acceleration were the final valuation date.

If the maturity of the notes is accelerated because of an event of default, we will, or will cause the calculation agent to, provide written notice to the trustee at its New York office, on which notice the trustee may conclusively rely, and to the depositary, of the amount due with respect to the notes as promptly as possible and in no event later than two business days after the date of acceleration.

Manner of Payment and Delivery

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

Role of Calculation Agent

The calculation agent will make all determinations regarding the Final Reference Stock Price, anti-dilution adjustments, market disruption events, the default amount and the amount payable on your notes. Absent manifest error, all determinations of the calculation agent will be final and binding on you and us, without any liability on the part of the calculation agent.

Our subsidiary, RBC Capital Markets Corporation, is currently serving as the calculation agent for the notes. We may change the calculation agent for your notes at any time upon 60 days’ written notice to Royal Bank of Canada.

Special Calculation Provisions

Business Day

When we refer to a business day with respect to your notes, we mean a day that is a business day of the kind described in the accompanying prospectus, unless otherwise specified in the relevant pricing supplement. If the relevant pricing supplement specifies a different meaning for the term business day, we will use that modified definition in determining each interest payment date as well as the maturity date for your notes, all as described in this product prospectus supplement.

Trading Day

When we refer to a trading day with respect to your notes, we mean a day on which the principal securities market for the Reference Stock is open for trading, unless otherwise specified in the relevant pricing supplement.

Closing Price

The closing price for any Reference Stock on any day will equal the closing sale price or last reported sale price, regular way, for the security or the ETF, on a per-share or other unit basis:

- on the principal national securities exchange on which that Reference Stock is listed for trading on that day, or
• if that security or ETF is not quoted on any national securities exchange on that day, on any other market system or quotation system that is the primary market for the trading of that Reference Stock.

If that Reference Stock is not listed or traded as described above, then the closing price for that Reference Stock on any day will be the average, as determined by the calculation agent, of the bid prices for the Reference Stock obtained from as many dealers in that Reference Stock selected by the calculation agent as will make those bid prices available to the calculation agent. The number of dealers need not exceed three and may include the calculation agent or any of its or our affiliates.
HYPOTHETICAL RETURNS ON YOUR NOTES

The relevant pricing supplement may include a table or chart showing a hypothetical Cash Delivery Amount that could be delivered — or the number of shares of the Reference Stock that could be delivered — for your notes at maturity, based on a range of hypothetical Final Reference Stock Prices and on various key assumptions shown in the relevant pricing supplement.

Any table or chart showing hypothetical Cash Delivery Amounts will be provided for purposes of illustration only. It should not be viewed as an indication or prediction of future investment results. Rather, it is intended merely to illustrate the impact that various hypothetical market prices of the Reference Stock on the valuation date(s) could have on the Cash Delivery Amount, as calculated in the manner described in the relevant pricing supplement and assuming all other variables remained constant. The hypothetical Cash Delivery Amounts listed in the relevant pricing supplement will be entirely hypothetical. They will be based on market prices for the Reference Stock that may not be achieved on the relevant valuation date(s) and on assumptions that may prove to be erroneous.

As calculated in the relevant pricing supplement, the hypothetical Cash Delivery Amounts on your notes at maturity may bear little or no relationship to the actual market value of your notes on that date or at any other time, including any time you might wish to sell your notes. In addition, you should not view the hypothetical Cash Delivery Amounts as an indication of the possible financial return on an investment in your notes, since the financial return will be affected by various factors, including taxes, that the hypothetical information does not take into account. Moreover, whatever the financial return on your notes might be, it may bear little relation to — and may be much less than — the financial return that you might achieve were you to invest in the Reference Stock directly. Among other things, the financial return on the Reference Stock would not be limited by the principal amount of your notes and could include substantial dividend payments, which you will not receive as an investor in your notes, and an investment in the Reference Stock is likely to have tax consequences that are different from an investment in your notes.

We describe various risk factors that may affect the market value of your notes, and the unpredictable nature of that market value, under “Additional Risk Factors Specific to Your Notes” above.

We cannot predict the market price of the Reference Stock or, therefore, the Final Reference Stock Price or the Cash Delivery Amount — or the number of shares of the Reference Stock that could be delivered — for your notes. Moreover, the assumptions we make in connection with any hypothetical information in the relevant pricing supplement may not reflect actual events. Consequently, that information may give little or no indication of the Cash Delivery Amount that will be delivered (or the number of shares of the Reference Stock that will be delivered) in respect of your notes at maturity, nor should it be viewed as an indication of the financial return on your notes or of how that return might compare to the financial return on an investment directly in the Reference Stock.
USE OF PROCEEDS AND HEDGING

We will use the net proceeds we receive from the sale of the notes for the purposes we describe in the attached prospectus supplement under “Use of Proceeds.” We or our affiliates may also use those proceeds in transactions intended to hedge our obligations under the notes as described below.

In anticipation of the sale of the notes, we or our affiliates expect to enter into hedging transactions involving purchases of the Reference Stock and/or listed and/or over-the-counter derivative instruments linked to the Reference Stock prior to or on the pricing date. From time to time, we or our affiliates may enter into additional hedging transactions or unwind those we have entered into. In this regard, we or our affiliates may:

- acquire or dispose of the Reference Stock;
- acquire or dispose of long or short positions in listed or over-the-counter derivative instruments related to the price of the Reference Stock; or
- any combination of the above two.

We or 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 or our affiliates may close out our or their hedge on or before the valuation date(s). That step may involve sales or purchases of the Reference Stock or over-the-counter derivative instruments linked to the Reference Stock.

The hedging activity discussed above may adversely affect the market value of the notes from time to time. See “Additional Risk Factors Specific to Your Notes — Trading and Other Transactions by Royal Bank or its Affiliates Relating to the Reference Stock May Adversely Affect the Market Value of the Notes” and “— The Business Activities of Royal Bank or Its Affiliates May Create Conflicts of Interest” in this product prospectus supplement for a discussion of these adverse effects.
REFERENCE STOCK ISSUER

In the relevant pricing supplement, we will provide summary information on the business of the Reference Stock issuer based on its publicly available documents.

Where Information About the Reference Stock Issuer Can Be Obtained

The Reference Stock will be registered under the United States Securities Exchange Act of 1934, as amended (“Exchange Act”). Companies with securities registered under the Exchange Act are required to file financial and other information specified by the U.S. Securities and Exchange Commission (“SEC”) periodically. This information is filed with the SEC and can be inspected and copied by you at the SEC’s Public Reference Room located at 100 F Street, N.E., Washington, D.C. 20549, at prescribed rates. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. In addition, information filed by the Reference Stock issuer with the SEC electronically is available to the public over the Internet at the SEC’s website at http://www.sec.gov. Information filed with the SEC by the Reference Stock issuer under the Exchange Act can be located by referencing its SEC file number. In addition, information about the Reference Stock issuer may be obtained from other sources including, but not limited to, press releases, newspaper articles and other publicly disseminated information. We make no representation or warranty as to the accuracy or completeness of any such information.

For notes linked to a Reference Stock that is an ETF, the Reference Stock may be an investment fund that seeks investment results that correspond generally to the price and yield performance, before fees and expenses, and with certain variations for timing mismatches, of an underlying equity securities index. While ETFs track the performance of an index, ETFs also trade as securities on stock exchanges. Examples of ETFs linked to equity security indices (but not necessarily the ETF that may comprise the Reference Stock of your notes) include iShares®, SPDR and Vanguard ETFs. Information about the ETF that may comprise the Reference Stock of your notes will be provided in the relevant pricing supplement.

Historical Trading Price Information

We may provide historical price information on the Reference Stock in the relevant pricing supplement. You should not take any such historical prices of the Reference Stock as an indication of the future performance. We cannot give you any assurance that the price of the Reference Stock will not decrease, thus preventing you from receiving an amount of shares or cash with a value equal to the principal amount of your notes at maturity.
SUPPLEMENTAL DISCUSSION OF CANADIAN TAX CONSEQUENCES

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

In the opinion of Ogilvy Renault LLP, our Canadian tax counsel, interest (including amounts deemed for purposes of the Income Tax Act (Canada) (“ITA”) to be interest) on the notes that is paid or credited or deemed for purposes of the ITA to be paid or credited by Royal Bank will not be subject to Canadian non-resident withholding tax, except in the circumstances described under the “Tax Consequences—Canadian Taxation” in the accompanying prospectus. If any interest paid or credited or deemed to be paid or credited on a note is to be calculated by reference to a Reference Stock which could be viewed as a proxy for the profit of Royal Bank, such interest may be subject to Canadian non-resident withholding tax. The Canadian withholding tax implications of such an issuance will be described particularly in the relevant pricing supplement if such notes are offered.
SUPPLEMENTAL DISCUSSION OF U.S. FEDERAL INCOME TAX CONSEQUENCES

The following is a general description of certain 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 advisers as to the consequences under the tax laws of the country of which they are 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 of interest, principal and/or other amounts under the notes. This summary is based upon the law as in effect on the date of this product prospectus supplement and is subject to any change in law that may take effect after such date.

Supplemental U.S. Tax Considerations

The following disclosure — including the opinion of Morrison & Foerster LLP — has been prepared without regard to any particular note that you may purchase in the future and, therefore, is provided solely as a matter of general information. You should not rely upon the following disclosure, or the disclosure under “Tax Consequences — United States Taxation” in the Prospectus or “Certain Income Tax Consequences — United States Taxation” in the Prospectus Supplement, with regard to an investment in any particular note because it does not take into account the terms of any particular note or the tax consequences of investing in or holding any particular note unless the pricing supplement applicable to your notes indicates that you may rely on the following disclosure and expressly states that you may rely on the opinion of Morrison & Foerster LLP. Any note that you purchase may have terms that would result in a tax treatment that is significantly different from the treatment described below. Consequently, any tax disclosure relevant to any note you may purchase will be set forth only in the pricing supplement relating to your note, and, unless the pricing supplement indicates otherwise, you should not rely on the tax disclosure below or in the prospectus supplement or prospectus in deciding whether to invest in any note. In addition, this tax disclosure assumes the following for all notes issued off of this product supplement: (i) the Reference Stock will be stock of a U.S. corporation that is traded on a public exchange and is not a “United States real property holding corporation” (as such term is defined in the Internal Revenue Code); (ii) interest will be paid at least annually and at equal intervals; (iii) the Interest Payment (as defined in the relevant pricing supplement) will not be below the market rate for non-contingent debt with terms similar to the notes; (iv) there is a significant possibility of a significant loss of principal on an investment in the notes; and (v) there is a reasonable likelihood that the Final Reference Stock Price will be greater than or equal to the Initial Reference Stock Price. Moreover, in all cases, you should consult with your own tax advisor concerning the consequences of investing in and holding any particular note you propose to purchase.

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement with respect to U.S. holders (as defined in the accompanying prospectus). Except as otherwise noted under “Non-U.S. Holders” below, it applies only to those U.S. holders who are not excluded from the discussion of U.S. federal income taxation in the accompanying prospectus.

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.

The following section is the opinion of Morrison & Foerster LLP, counsel to Royal Bank. In addition, it is the opinion of Morrison & Foerster LLP that the characterization of the notes for U.S. federal income tax purposes as discussed below, is a reasonable interpretation of current law. Unless otherwise specified in the applicable pricing supplement, Royal Bank intends to treat any interest with respect to the notes, as determined for U.S. federal income tax purposes, as from sources within the U.S.

The U.S. federal income tax treatment of your notes will depend on whether (i) the term of your notes exceeds one year, or (ii) the term of your notes will not exceed one year, without regard to the effect of an extension in the event of a market disruption event. Accordingly, we set forth a separate subsection for each of the situations described in the previous sentence.

Where the Term of Your Notes Exceeds One Year

General

In the opinion of our counsel, Morrison & Foerster LLP, it would be reasonable to treat your notes as an investment unit consisting of (i) a non-contingent debt instrument issued by us to you (the “Debt Portion”) and (ii) a put option with respect to the Reference Stock written by you and purchased by us (the “Put Option”). The balance of this disclosure assumes this treatment is proper and will be respected for U.S. federal income tax purposes.

Treatment as an Investment Unit

If your notes are properly treated as an investment unit consisting of a Debt Portion and Put Option, it is likely that the Debt Portion of your notes would be treated as having been issued for the principal amount of the notes (if you are an initial purchaser) and that interest payments on the notes would be treated in part as payments of interest and in part as payments for the Put Option. Amounts treated as interest would be included in income in accordance with your regular method of accounting for interest for U.S. federal income tax purposes. Amounts treated as payment for the Put Option would be deferred and accounted for upon the sale, call or maturity of the notes, as discussed below.

If you were to receive a cash payment of the full principal amount of your notes upon the call or maturity of your notes, such payment would likely be treated as (i) payment in full of the principal amount of the Debt Portion (which would not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the lapse of the Put Option which would likely result in your recognition of short-term capital gain in an amount equal to the amount paid to you for the Put Option and deferred as described in the preceding paragraph. If you were to receive a cash payment upon the maturity of your notes (excluding cash received as a coupon) of less than the full principal amount of your notes, such payment would likely be treated as (i) payment in full of the principal amount of the Debt Portion (which would not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the cash settlement of the Put Option pursuant to which you paid to us an amount equal to the excess of the principal amount of your notes over the amount that you received upon the maturity of your notes (excluding cash received as a coupon) in order to settle the Put Option. If the aggregate amount paid to you for the Put Option and deferred as described in the preceding paragraph is greater than the amount you are deemed to have paid to us to settle the Put Option, you will likely recognize short-term capital gain in an amount that is equal to such excess.

Conversely, if the amount paid to you for the Put Option and deferred as described in the preceding paragraph is less than the amount you are deemed to have paid to us to settle the Put Option, you will likely recognize short-term capital loss in an amount that is equal to such difference.

If, instead of making a cash payment to you, we were to exchange your notes for shares of the Reference Stock of equivalent value, the receipt of such stock upon the maturity of your notes would likely be treated as (i) payment in full of the principal amount of the Debt Portion (which would likely not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the exercise by us of the Put Option and your purchase of the shares of stock you receive for an amount equal to the principal amount of your notes. The U.S. federal income tax basis of the shares of stock you receive with respect to each note would equal the principal amount of the note less the amount of payments you received for the Put Option and deferred as described in the second preceding paragraph. The holding period in the shares of stock you receive would begin the day after you beneficially receive such shares of stock. If you receive cash in lieu of a fractional share of stock, you will be treated as having received such fractional share and then having received cash in exchange for such fractional share. You generally will recognize short-term capital gain or loss based on the difference between the amount of cash received in lieu of the fractional share and the U.S. federal income tax basis allocated to such fractional share.

Upon the sale of your notes, you would be required to apportion the value of the amount you receive between the Debt Portion and Put Option on the basis of the values thereof on the date of the sale. You would
recognize gain or loss with respect to the Debt Portion in an amount equal to the difference between (i) the amount apportioned to the Debt Portion and (ii) your adjusted U.S. federal income tax basis in the Debt Portion (which would generally be equal to the principal amount of your notes if you are an initial purchaser of your notes). Except to the extent attributable to accrued but unpaid interest with respect to the Debt Portion, such gain or loss would be long-term capital gain or loss if your holding period is greater than one year. The amount of cash that you receive that is apportioned to the Put Option (together with any amount of premium received in respect thereof and deferred as described in the third preceding paragraph) would be treated as short-term capital gain. If the value of the Debt Portion on the date of the sale of your notes is in excess of the amount you receive upon such sale, you would likely be treated as having made a payment (to the purchaser in the case of a sale) equal to the amount of such excess in order to extinguish your rights and obligations under the Put Option. In such a case, you would likely recognize short-term capital gain or loss in an amount equal to the difference between the premium you previously received in respect of the Put Option and the amount of the deemed payment made by you to extinguish the Put Option.

If you are a secondary purchaser of your notes, you would be required to allocate your purchase price for your notes between the Debt Portion and Put Option based on the respective fair market values of each on the date of purchase. If, however, the portion of your purchase price allocated to the Debt Portion is at a discount from, or is in excess of, the principal amount of your notes, you may be subject to the market discount or amortizable bond premium rules described in the accompanying prospectus under “Tax Consequences — United States Taxation — Market Discount” and “Tax Consequences — United States Taxation — Debt Securities Purchased at a Premium” with respect to the Debt Portion. The portion of your purchase price that is allocated to the Put Option would likely be offset for tax purposes against amounts you subsequently receive with respect to the Put Option (including amounts received upon a sale of the notes that are attributable to the Put Option), thereby reducing the amount of gain or increasing the amount of loss you would recognize with respect to the Put Option or with respect to the sale of any Reference Stock you receive upon the exercise of the Put Option. If, however, the portion of your purchase price allocated to the Debt Portion as described above is in excess of your purchase price for your notes, you would likely be treated for tax purposes as having received a payment for the Put Option (which will be deferred as described in the fourth preceding paragraph) in an amount equal to such excess.

Alternative Characterizations

There is no judicial or administrative authority discussing how your notes should be treated for U.S. federal income tax purposes. Therefore, other treatments would also be reasonable and the Internal Revenue Service might assert that treatment other than that described above is more appropriate.

For example, it is possible that your note could be treated as a single debt instrument subject to the special tax rules governing contingent payment debt instruments. If your note is so treated, you would be required to accrete interest income over the term of your note based upon the yield at which we would issue a non-contingent fixed-rate debt instrument with other terms and conditions similar to your note. You would recognize gain or loss upon the sale, call or maturity of your note in an amount equal to the difference, if any, between the amount you receive at such time and your adjusted basis in your note. In general, your adjusted basis in your note would be equal to the amount you paid for your note, increased by the amount of interest you previously accrued with respect to your note. Any gain you recognize upon the sale, call or maturity of your note would be ordinary income and any loss recognized by you at such time would generally be ordinary loss to the extent of interest you included in income in the current or previous taxable years with respect to your note, and thereafter would be capital loss.

If your note is treated as a contingent payment debt instrument and you purchase your note in the secondary market at a price that is at a discount from, or in excess of, the adjusted issue price of your note, such excess or discount would not be subject to the generally applicable market discount or amortizable bond premium rules described in the accompanying prospectus but rather would be subject to special rules set forth in treasury regulations governing contingent payment debt instruments. Accordingly, if you purchase your note in the secondary market, you should consult your tax advisor as to the possible application of such rules to you.

In addition, the Internal Revenue Service has released a notice that may affect the taxation of holders of “prepaid forward contracts” and similar instruments. According to the notice, the Internal Revenue Service and the U.S. Treasury are actively considering whether the holder of such instruments should be required to accrue ordinary income on a current basis, and they are seeking taxpayer comments on the subject. While it is not clear whether the
notes would be viewed as similar to such instruments, it is possible that any future guidance could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect.

Because of the absence of authority regarding the appropriate tax characterization of your note, it is possible that the Internal Revenue Service could seek to characterize your note in a manner that results in tax consequences to you that are different from those described above. For example, it is possible that you may be required to include the entire coupon into income when it is received. It is also possible that your note may be characterized in whole or in part as a notional principal contract or as a different type of derivative contract. You should consult your tax advisor as to the tax consequences of possible alternative characterizations of your note for U.S. federal income tax purposes.

Where the Term of the Notes Will Not Exceed One Year Without Regard to the Effect of an Extension in the Event of a Market Disruption Event

General

In the opinion of our counsel, Morrison & Foerster LLP, it would be reasonable to treat your notes as an investment unit consisting of (i) a non-contingent debt instrument subject to the rules governing short-term debt instruments (as described under “Tax Consequences — United States Taxation — Original Issue Discount — Short-Term Debt Securities” in the accompanying prospectus) issued by us to you (the “Short-Term Debt Portion”) and (ii) a Put Option.

Treatment as an Investment Unit

If your notes are properly treated as an investment unit consisting of a Short-Term Debt Portion and Put Option, it is likely that the Short-Term Debt Portion of your notes would be treated as having been issued for the principal amount of the notes and that interest payments on the notes would be treated in part as payments of interest and in part as payments for the Put Option. Amounts treated as interest would be subject to the rules governing short-term debt instruments (as described under “Tax Consequences — United States Taxation — Original Issue Discount — Short-Term Debt Securities” in the accompanying prospectus). Amounts treated as payment for the Put Option would be deferred and accounted for upon sale, call or maturity of the notes, as discussed below.

If you were to receive a cash payment of the full principal amount of your notes upon the call or maturity of your notes, such payment would likely be treated as (i) payment in full of the principal amount of the Short-Term Debt Portion (which would not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the lapse of the Put Option which would likely result in your recognition of short-term capital gain in an amount equal to the amount paid to you for the Put Option and deferred as described in the preceding paragraph. If you were to receive a cash payment upon the maturity of your notes (excluding cash received as a coupon) of less than the full principal amount of your notes, such payment would likely be treated as (i) payment in full of the principal amount of the Short-Term Debt Portion (which would not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the cash settlement of the Put Option pursuant to which you paid to us an amount equal to the excess of the principal amount of your notes over the amount that you received upon the maturity of your notes (excluding cash received as a coupon) in order to settle the Put Option. If the aggregate amount paid to you for the Put Option and deferred as described in the preceding paragraph is greater than the amount you are deemed to have paid to us to settle the Put Option, you will likely recognize short-term capital gain in an amount that is equal to such excess. Conversely, if the amount paid to you for the Put Option and deferred as described in the preceding paragraph is less than the amount you are deemed to have paid to us to settle the Put Option, you will likely recognize short-term capital loss in an amount that is equal to such difference.

If, instead of making a cash payment to you, we were to exchange your notes for shares of the Reference Stock of equivalent value, the receipt of such stock upon the maturity of your notes would likely be treated as (i) payment in full of the principal amount of the Short-Term Debt Portion (which would likely not result in the recognition of gain or loss if you are an initial purchaser of your notes) and (ii) the exercise by us of the Put Option and your purchase of the shares of stock you receive for an amount equal to the principal amount of your notes. The U.S. federal income tax basis of the shares of stock you receive would equal the principal amount of your notes less the amount of payments you received for the Put Option and deferred as described in the second preceding
paragraph. The holding period in the shares of stock you receive would begin the day after you beneficially receive such shares of stock. If you receive cash in lieu of a fractional share of stock, you will be treated as having received such fractional share and then having received cash in exchange for such fractional share. You generally will recognize short-term capital gain or loss based on the difference between the amount of cash received in lieu of the fractional share and the U.S. federal income tax basis allocated to such fractional share.

Upon the sale of your notes, you would be required to apportion the value of the amount you receive between the Short-Term Debt Portion and Put Option on the basis of the values thereof on the date of the sale. You would recognize gain or loss with respect to the Short-Term Debt Portion in an amount equal to the difference between (i) the amount apportioned to the Short-Term Debt Portion and (ii) your adjusted U.S. federal income tax basis in the Debt Portion. Except to the extent attributable to accrued but unpaid interest with respect to the Short-Term Debt Portion, such gain or loss would be short-term capital gain or loss. If you are a cash basis taxpayer and do not elect to accrue interest currently, your adjusted basis in your notes should generally be the purchase price of your notes. If you are an accrual basis holder, or a cash basis holder that elects to accrue interest on your notes currently, your adjusted basis in your notes should generally be the purchase price of your notes increased by the amount of accrued interest and decreased by any interest that is paid in respect of the Short-Term Debt Portion.

Upon the sale of your notes, the amount of cash that you receive that is apportioned to the Put Option (together with any amount of premium received in respect thereof and deferred as described in the fourth preceding paragraph) would be treated as short-term capital gain. If the value of the Short-Term Debt Portion on the date of the sale of your notes is in excess of the amount you receive upon such sale, you would likely be treated as having made a payment (to the purchaser in the case of a sale) equal to the amount of such excess in order to extinguish your rights and obligations under the Put Option. In such a case, you would likely recognize short-term capital gain or loss in an amount equal to the difference between the premium you previously received in respect of the Put Option and the amount of the deemed payment made by you to extinguish the Put Option.

If you are a secondary purchaser of your notes, you would be required to allocate your purchase price for your notes between the Short-Term Debt Portion and Put Option based on the respective fair market values of each on the date of purchase. If the portion of your purchase price allocated to the Short-Term Debt Portion is in excess of the principal amount of your notes, you may be subject to the amortizable bond premium rules described in the accompanying prospectus under “Tax Consequences — United States Taxation — Debt Securities Purchased at a Premium” with respect to the Short-Term Debt Portion. If the portion of your purchase price allocated to the Short-Term Debt Portion is at a discount from the principal amount of the notes, special market discount rules applicable to short-term debt instruments may apply. You should consult your tax advisor with respect to such rules in such case. The portion of your purchase price that is allocated to the Put Option would likely be offset for tax purposes against amounts you subsequently receive with respect to the Put Option (including amounts received upon a sale of the notes that are attributable to the Put Option), thereby reducing the amount of gain or increasing the amount of loss you would recognize with respect to the Put Option or with respect to the sale of any stock you receive upon the exercise of the Put Option. If, however, the portion of your purchase price allocated to the Short-Term Debt Portion as described above is in excess of your purchase price for your notes, you would likely be treated for tax purposes as having received a payment for the Put Option (which will be deferred as described in the fifth preceding paragraph) in an amount equal to such excess.

Alternative Characterizations

There is no judicial or administrative authority discussing how your notes should be treated for U.S. federal income tax purposes. Therefore, other treatments would also be reasonable and the Internal Revenue Service might assert that treatment other than that described above is more appropriate. For example, the Internal Revenue Service might assert that your notes should be treated as a single debt instrument as described in “Tax Consequences — United States Taxation” in the accompanying prospectus. Pursuant to such characterization, the notes would generally be subject to the rules concerning short-term debt instruments as described under the heading “Tax Consequences — United States Taxation — Original Issue Discount — Short-Term Debt Securities” therein. It is also possible that you may be required to include the entire coupon in income when it is received. Further, your note may be characterized in whole or in part as a notional principal contract or as a different type of derivative contract. In addition, if the term of your notes may exceed one year in the event of a market disruption event, your notes may
be treated as notes with a term in excess of one year. In such case, your notes would be subject to the rules described under “Where the Term of Your Notes Exceeds One Year” above.

In addition, the Internal Revenue Service has released a notice that may affect the taxation of holders of “prepaid forward contracts” and similar instruments. According to the notice, the Internal Revenue Service and the U.S. Treasury are actively considering whether the holder of such instruments should be required to accrue ordinary income on a current basis, and they are seeking taxpayer comments on the subject. While it is not clear whether the notes would be viewed as similar to such instruments, it is possible that any future guidance could materially and adversely affect the tax consequences of an investment in the notes, possibly with retroactive effect. You should consult your tax advisor as to the tax consequences of possible alternative characterizations of your note for U.S. federal income tax purposes.

Additional Medicare Tax

With respect to taxable years beginning after December 31, 2012, certain U.S. holders, including individuals, estates and trusts, will be subject to an additional 3.8% Medicare tax on unearned income. For individual U.S. holders, the additional Medicare tax applies to the lesser of (i) “net investment income,” or (ii) the excess of “modified adjusted gross income” over $200,000 ($250,000 if married and filing jointly or $125,000 if married and filing separately). “Net investment income” generally equals the taxpayer’s gross investment income reduced by the deductions that are allocable to such income. Investment income generally includes passive income such as interest, dividends, annuities, royalties, rents, and capital gains. You are urged to consult your own tax advisor regarding the implications of the additional Medicare tax resulting from an investment in the notes.

Backup Withholding and Information Reporting

Please see the discussion under “Tax Consequences — United States Taxation — Information Reporting and Backup Withholding” in the accompanying prospectus for a description of the applicability of the backup withholding and information reporting rules to payments made on your notes.

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.

Non-U.S. Holders

The notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and the underwriter will not make offers of the notes to any such investor. Notwithstanding this intended restriction on purchases, the following discussion applies to non-U.S. holders of the notes. You are a non-U.S. holder if you are a beneficial owner of a note and are for U.S. federal income tax purposes a non-resident alien individual, a foreign corporation, or a foreign estate or trust.

As discussed above, the U.S. federal income tax treatment of the notes is uncertain and Royal Bank and its affiliates will withhold U.S. federal income tax at a 30% rate (or at a lower rate under an applicable income tax treaty) in respect of interest payments made on the notes to a non-U.S. holder unless such payments are effectively connected with the conduct by the non-U.S. holder of a trade or business in the United States (in which case, to avoid withholding, the non-U.S. holder will be required to provide a Form W-8ECI). We will not pay any additional amounts in respect of such withholding. To claim benefits under an income tax treaty, a non-U.S. holder must obtain a taxpayer identification number and certify as to its eligibility under the appropriate treaty’s limitations on benefits article, if applicable (which certification may generally be made on a Form W-8BEN, or a substitute or successor form). In addition, special rules may apply to claims for treaty benefits made by corporate non-U.S. holders. A non-U.S. holder that is eligible for a reduced rate of U.S. federal withholding tax pursuant to an income tax treaty may obtain a refund of any excess amounts withheld by filing an appropriate claim for refund with the Internal Revenue Service. The availability of a lower rate of withholding or an exemption from withholding under an applicable income tax treaty will depend on the proper characterization of the interest payments under U.S. federal income tax laws and whether such treaty rate or exemption applies to such interest payments. No assurance can be provided on the proper characterization of the interest payments for U.S. federal income tax purposes and,
accordingly, no assurance can be provided on the availability of benefits under any income tax treaty. Non-U.S. holders must consult their tax advisors in this regard.

If you do not hold your notes through an account with Royal Bank or its affiliates, the institution through which you hold the notes may determine to withhold U.S. federal income tax in respect of interest payments made on the notes as described above.

You will generally not be subject to U.S. federal income or withholding tax on any gain upon the sale or maturity of the notes, provided that (i) you comply with applicable certification requirements, which certification may be made on an Form W-8BEN (or a substitute or successor form) on which you certify, under penalties of perjury, that you are not a U.S. person and provide your name and address, (ii) your gain is not effectively connected with your conduct of a U.S. trade or business, and (iii) if you are a non-resident alien individual, you are not present in the U.S. for 183 days or more during the taxable year of the sale or maturity of the notes. In the case of (ii) above, you generally would be subject to U.S. federal income tax with respect to any income or gain in the same manner as if you were a U.S. holder and, if you are a corporation, you 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 your 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 you may be subject to information reporting and to backup withholding unless you comply with applicable certification and identification requirements as to your foreign status.

As discussed above, alternative characterizations of the notes for U.S. federal income tax purposes are possible. Should an alternative characterization, 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, or if we determine withholding is appropriate under current law, we will withhold tax at the applicable statutory rate. Prospective investors should consult their own tax advisors in this regard.

Legislation Affecting Taxation of Notes Held By or Through Foreign Entities

Legislation was enacted on March 18, 2010 that will, effective for payments made after December 31, 2012, impose a 30% U.S. withholding tax on certain payments, including possibly the Interest Payments and payment of the gross proceeds from a disposition of the notes, paid to a foreign financial institution, unless such institution enters into an agreement with the U.S. Treasury to collect and provide to the U.S. Treasury substantial information regarding U.S. financial account holders, including certain account holders that are foreign entities with U.S. owners, with such institution. In addition, unless Treasury regulations provide otherwise, the notes may constitute a “financial account” for these purposes. The legislation also generally imposes a withholding tax of 30% on such payments 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. These withholding and reporting requirements will generally apply to payments made after December 31, 2012, and if we determine withholding is appropriate with respect to the notes, we will withhold tax at the applicable statutory rate. Investors are urged to consult with their own tax advisors regarding the possible implications of this recently enacted legislation on their investment in the notes.
EMPLOYEE RETIREMENT INCOME SECURITY ACT

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

The Employee Retirement Income Security Act of 1974, as amended, which we call “ERISA” and the Internal Revenue Code of 1986, as amended, prohibit certain transactions involving the assets of an employee benefit plan and certain persons who are “parties in interest” (within the meaning of ERISA) or “disqualified persons” (within the meaning of the Internal Revenue Code) with respect to the plan; governmental plans may be subject to similar prohibitions. Therefore, a plan fiduciary considering purchasing notes should consider whether the purchase or holding of such instruments might constitute a “prohibited transaction”.

Royal Bank and certain of its affiliates each may be considered a “party in interest” or a “disqualified person” with respect to many employee benefit plans by reason of, for example, Royal Bank (or its affiliate) providing services to such plans. Prohibited transactions within the meaning of ERISA or the Internal Revenue Code may arise, for example, if notes are acquired by or with the assets of a pension or other employee benefit plan that is subject to the fiduciary responsibility provisions of ERISA or Section 4975 of the Internal Revenue Code (including individual retirement accounts and other plans described in Section 4975(e)(1) of the Internal Revenue Code), which we call collectively “Plans”, and with respect to which Royal Bank or any of its affiliates is a “party in interest” or a “disqualified person”, unless those notes are acquired under an exemption for transactions effected on behalf of that Plan by a “qualified professional asset manager” or an “in-house asset manager”, for transactions involving insurance company general accounts, for transactions involving insurance company pooled separate accounts, for transactions involving bank collective investment funds, or under another available exemption. Section 408(b) (17) provides an additional exemption for the purchase and sale of securities and related lending transactions where neither the issuer of the securities nor any of its affiliates have or exercise any discretionary authority or control or render any investment advice with respect to the assets of any Plan involved in the transaction and the Plan pays no more than “adequate consideration” in connection with the transaction. The assets of a Plan may include assets held in the general account of an insurance company that are deemed to be “plan assets” under ERISA. The person making the decision on behalf of a Plan or a governmental plan shall be deemed, on behalf of itself and the Plan, by purchasing and holding the notes, or exercising any rights related thereto, to represent that (a) such purchase, holding and exercise of the notes will not result in a non-exempt prohibited transaction under ERISA or the Internal Revenue Code (or, with respect to a governmental plan, under any similar applicable law or regulation) and (b) neither Royal Bank nor any of its affiliates is a “fiduciary” (within the meaning of Section 3(21) of ERISA) with respect to the purchaser or holder in connection with such person’s acquisition, disposition or holding of the notes, or any exercise related thereto or as a result of any exercise by Royal Bank or any of its affiliates of any rights in connection with the notes, and no advice provided by Royal Bank or any of its affiliates has formed a primary basis for any investment decision by or on behalf of such purchaser or holder in connection with the notes and the transactions contemplated with respect to the notes.

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

With respect to each note to be issued, Royal Bank will agree to sell to RBC Capital Markets Corporation, and RBC Capital Markets Corporation will agree to purchase from Royal Bank, the principal amount of the note specified, at the price specified under “Proceeds to Royal Bank”, in the relevant pricing supplement. RBC Capital Markets Corporation intends to resell each note it purchases at the original issue price specified in the relevant pricing supplement. In the future, RBC Capital Markets Corporation or another of our affiliates may repurchase and resell the notes in market-making transactions, with resales being made at prices related to prevailing market prices at the time of resale or at negotiated prices. For more information about the plan of distribution, the distribution agreement and possible market-making activities, see “Supplemental Plan of Distribution” in the accompanying prospectus supplement.

To the extent the underwriter resells notes to a broker or dealer less a concession equal to the entire underwriting discount, such broker or dealer may be deemed to be an “underwriter” of the notes as such term is defined in the Securities Act of 1933, as amended.

The notes are not intended for purchase by any investor that is not a United States person, as that term is defined for U.S. federal income tax purposes, and RBC Capital Markets Corporation and its affiliates will not make offers of the notes to any such investor in the initial offering of the notes or in any secondary market.
Royal Bank of Canada
US$ 8,000,000,000
Senior Global Medium-Term Notes, Series D

Terms of Sale

Royal Bank of Canada may from time to time offer and sell notes with various terms, including the following:

- Stated maturity of 9 months or longer, except that indexed notes may have maturities of less than nine months
- Fixed or floating interest rate, zero-coupon or issued with original issue discount; a floating interest rate may be based on:
  - Commercial paper rate
  - U.S. prime rate
  - LIBOR
  - EURIBOR
  - Treasury rate
  - CMT rate
  - CD rate
  - CMS rate
  - Federal funds rate
- Ranked as senior indebtedness of Royal Bank of Canada

The final terms of each note will be included in a pricing supplement. If we sell all of the notes through agents and in the form of fixed or floating rate notes, we expect to receive between $8,000,000,000 and $7,920,000,000 of the proceeds from the sale of the notes, after paying the agents’ commissions of between $0 and $80,000,000. If we sell all of the notes through agents and in the form of indexed or other structured notes, we expect to receive between $7,920,000,000 and $7,600,000,000 of the proceeds from the sale of such notes, after paying the agents’ commission of between $80,000,000 and $400,000,000. See “Supplemental Plan of Distribution” for additional information about the agents’ commissions. The aggregate initial offering price of the notes is subject to reduction as a result of the sale by Royal Bank of Canada of other debt securities pursuant to another prospectus supplement to the accompanying prospectus.

See “Risk Factors” beginning on page S-1 to read about factors you should consider before investing in any notes.

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

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 governmental agency or instrumentality.

Royal Bank of Canada may sell the notes directly or through one or more agents or dealers, including the agents referred to in “Supplemental Plan of Distribution.” The agents are not required to sell any particular amount of the notes.

Royal Bank of Canada may use this prospectus supplement in the initial sale of any notes. In addition, RBC Capital Markets Corporation or any other affiliate of Royal Bank of Canada may use this prospectus supplement and accompanying prospectus in a market-making or other transaction in any note after its initial sale. **Unless Royal Bank of Canada or its agent informs the purchaser otherwise in the confirmation of sale or pricing supplement, this prospectus supplement and accompanying prospectus are being used in a market-making transaction.**

The date of this prospectus supplement is January 11, 2010.
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ABOUT THIS PROSPECTUS SUPPLEMENT

This prospectus supplement and the accompanying prospectus and, if applicable, a product prospectus supplement, provide you with a general description of the notes we may offer. Each time we sell notes we will provide a pricing supplement containing specific information about the terms of the notes being offered. Each pricing supplement may include a discussion of any risk factors or other special considerations that apply to those notes. The pricing supplement may also add, update or change the information in this prospectus supplement and any applicable product prospectus supplement. If there is any inconsistency between the information in this prospectus supplement or any applicable product prospectus supplement and any pricing supplement, you should rely on the information in that pricing supplement. In this prospectus supplement when we refer to this prospectus supplement we are also referring to any applicable product prospectus supplement unless the context otherwise requires.

RISK FACTORS

Our Credit Ratings May Not Reflect All Risks of an Investment in the Notes

The credit ratings of our medium-term note program may not reflect the potential impact of all risks related to structure and other factors on any trading market for, or trading value of, your notes. In addition, real or anticipated changes in our credit ratings will generally affect any trading market for, or trading value of, your notes.

Risks Relating to Indexed Notes

We use the term “indexed notes” to mean notes whose value is linked to an underlying property or index. Indexed notes may present a high level of risk, and those who invest in indexed notes may lose their entire investment. In addition, the treatment of indexed notes for U.S. federal income tax purposes is often unclear due to the absence of any authority specifically addressing the issues presented by any particular indexed note. Thus, if you propose to invest in indexed notes, you should independently evaluate the federal income tax consequences of purchasing an indexed note that apply in your particular circumstances. You should also read “Certain Income Tax Consequences—United States Taxation” in this prospectus supplement, as well as “Tax Consequences – United States Taxation” in the accompanying prospectus, for a discussion of U.S. tax matters.

Investors in Indexed Notes Could Lose Their Investment

The amount of principal and/or interest payable on an indexed note and the cash value or physical settlement value of a physically settled note will be determined by reference to the price, value or level of one or more securities, currencies, commodities or other properties, any other financial, economic or other measure or instrument, including the occurrence or non-occurrence of any event or circumstance, and/or one or more indices or baskets of any of these items. We refer to each of these as an “index”. The direction and magnitude of the change in the price, value or level of the relevant index will determine the amount of principal and/or interest payable on the indexed note, and the cash value or physical settlement value of a physically settled note. The terms of a particular indexed note may or may not include a guaranteed return of a percentage of the face amount at maturity or a minimum interest rate. Thus, if you purchase an indexed note, you may lose all or a portion of the principal or other amount you invest and may receive no interest on your investment.
The Issuer of a Security or Currency That Serves as an Index Could Take Actions That May Adversely Affect an Indexed Note

The issuer of a security that serves as an index or part of an index for an indexed note will have no involvement in the offer and sale of the indexed note and no obligations to the holder of the indexed note. The issuer may take actions, such as a merger or sale of assets, without regard to the interests of the holder. Any of these actions could adversely affect the value of a note indexed to that security or to an index of which that security is a component.

If the index for an indexed note includes a non-U.S. dollar currency or other asset denominated in a non-U.S. dollar currency, the government that issues that currency will also have no involvement in the offer and sale of the indexed note and no obligations to the holder of the indexed note. That government may take actions that could adversely affect the value of the note. See “—Risks Relating to Notes Denominated or Payable in or Linked to a Non-U.S. Dollar Currency” below for more information about these kinds of government actions.

An Indexed Note May Be Linked to a Volatile Index, Which Could Hurt Your Investment

Some indices are highly volatile, which means that their value may change significantly, up or down, over a short period of time. The amount of principal and/or interest that can be expected to become payable on an indexed note may vary substantially from time to time. Because the amounts payable with respect to an indexed note are generally calculated based on the value or level of the relevant index on a specified date or over a limited period of time, volatility in the index increases the risk that the return on the indexed note may be adversely affected by a fluctuation in the level of the relevant index. The volatility of an index may be affected by political or economic events, including governmental actions, or by the activities of participants in the relevant markets. Any of these events or activities could adversely affect the value of an indexed note.

An Index to Which a Note Is Linked Could Be Changed or Become Unavailable

Some indices compiled by us or our affiliates or third parties may consist of or refer to several or many different securities, commodities or currencies or other instruments or measures. The compiler of such an index typically reserves the right to alter the composition of the index and the manner in which the value or level of the index is calculated. An alteration may result in a decrease in the value of or return on an indexed note that is linked to the index. The indices for our indexed notes may include published indices of this kind or customized indices developed by us or our affiliates in connection with particular issues of indexed notes.

A published index may become unavailable, or a customized index may become impossible to calculate in the normal manner, due to events such as war, natural disasters, cessation of publication of the index or a suspension or disruption of trading in one or more securities, commodities or currencies or other instruments or measures on which the index is based. If an index becomes unavailable or impossible to calculate in the normal manner, the terms of a particular indexed note may allow us to delay determining the amount payable as principal or interest on an indexed note, or we may use an alternative method to determine the value of the unavailable index. Alternative methods of valuation are generally intended to produce a value similar to the value resulting from reference to the relevant index. However, it is unlikely that any alternative method of valuation we use will produce a value identical to the value that the actual index would have produced. If we use an alternative method of valuation for a note linked to an index of this kind, the value of the note, or the rate of return on it, may be lower than it otherwise would be.

Some indexed notes are linked to indices that are not commonly used or that have been developed only recently. The lack of a trading history may make it difficult to anticipate the volatility or other risks associated with an indexed note of this kind. In addition, trading in these indices or their underlying
stocks, commodities or currencies or other instruments or measures, or options or futures contracts on these stocks, commodities or currencies or other instruments or measures, may be limited, which could increase their volatility and decrease the value of the related indexed notes or the rates of return on them.

Pricing Information About the Property Underlying a Relevant Index May Not Be Available

Special risks may also be presented because of differences in time zones between the United States and the market for the property underlying the relevant index, such that the underlying property is traded on a foreign exchange that is not open when the trading market for the notes in the United States, if any, is open or where trading occurs in the underlying property during times when the trading market for the notes in the United States, if any, is closed. In such cases, holders of the notes may have to make investment decisions at a time when current pricing information regarding the property underlying the relevant index is not available.

We May Engage in Hedging Activities that Could Adversely Affect an Indexed Note

In order to hedge an exposure on a particular indexed note, we may, directly or through our affiliates or other agents, enter into transactions involving the securities, commodities or currencies or other instruments or measures that underlie the index for the note, or involving derivative instruments, such as swaps, options or futures, on the index or any of its component items. To the extent that we enter into hedging arrangements with a non-affiliate, including a non-affiliated agent, such non-affiliate may enter into similar transactions. Engaging in transactions of this kind could adversely affect the value of an indexed note. It is possible that we or the hedging counterparty could achieve substantial returns from our hedging transactions while the value of the indexed note may decline.

Information About Indices May Not Be Indicative of Future Performance

If we issue an indexed note, we may include historical information about the relevant index in the relevant pricing supplement. Any information about indices that we may provide will be furnished as a matter of information only, and you should not regard the information as indicative of the range of, or trends in, fluctuations in the relevant index that may occur in the future.

We May Have Conflicts of Interest Regarding an Indexed Note

RBC Capital Markets Corporation and our other affiliates and unaffiliated agents may have conflicts of interest with respect to some indexed notes. RBC Capital Markets Corporation and our other affiliates and unaffiliated agents may engage in trading, including trading for hedging purposes, for their proprietary accounts or for other accounts under their management, in indexed notes and in the securities, commodities or currencies or other instruments or measures on which the index is based or in other derivative instruments related to the index or its component items. These trading activities could adversely affect the value of indexed notes. We and our affiliates and unaffiliated agents may also issue or underwrite securities or derivative instruments that are linked to the same index as one or more indexed notes. Introducing competing products into the marketplace in this manner could adversely affect the value of a particular indexed note.

RBC Capital Markets Corporation or another of our affiliates or an unaffiliated entity that provides us a hedge in respect of indexed notes may serve as calculation agent and/or exchange rate agent for the indexed notes and may have considerable discretion in calculating the amounts payable in respect of the notes. To the extent that RBC Capital Markets Corporation or another of our affiliates or such an unaffiliated entity calculates or compiles a particular index, it may also have considerable discretion in performing the calculation or compilation of the index. Exercising discretion in this manner could adversely affect the value of an indexed note based on the index or the rate of return on the security.
Risks Relating to Notes Denominated or Payable in or Linked to a Non-U.S. Dollar Currency

If you intend to invest in a non-U.S. dollar note—e.g., a note whose principal and/or interest is payable in a currency other than U.S. dollars or that may be settled by delivery of or reference to a non-U.S. dollar currency or property denominated in or otherwise linked to a non-U.S. dollar currency—you should consult your own financial and legal advisors as to the currency risks entailed by your investment. Notes of this kind may not be an appropriate investment for investors who are unsophisticated with respect to non-U.S. dollar currency transactions.

An Investment in a Non-U.S. Dollar Note Involves Currency-Related Risks

An investment in a non-U.S. dollar note entails significant risks that are not associated with a similar investment in a note that is payable solely in U.S. dollars and where settlement value is not otherwise based on a non-U.S. dollar currency. These risks include the possibility of significant changes in rates of exchange between the U.S. dollar and the various non-U.S. dollar currencies or composite currencies and the possibility of the imposition or modification of foreign exchange controls or other conditions by either the United States or non-U.S. governments. These risks generally depend on factors over which we have no control, such as economic and political events and the supply of and demand for the relevant currencies in the global markets.

Changes in Currency Exchange Rates Can Be Volatile and Unpredictable

Rates of exchange between the U.S. dollar and many other currencies have been highly volatile, and this volatility may continue and perhaps spread to other currencies in the future. Fluctuations in currency exchange rates could adversely affect an investment in a note denominated in, or where value is otherwise linked to, a specified currency other than U.S. dollars. Depreciation of the specified currency against the U.S. dollar could result in a decrease in the U.S. dollar-equivalent value of payments on the note, including the principal payable at maturity. That in turn could cause the market value of the note to fall. Depreciation of the specified currency against the U.S. dollar could result in a loss to the investor on a U.S. dollar basis.

In courts outside of New York, investors may not be able to obtain judgment in a specified currency other than U.S. dollars. For example, a judgment for money in an action based on a non-U.S. dollar note in many other U.S. federal or state courts ordinarily would be enforced in the United States only in U.S. dollars. The date used to determine the rate of conversion of the currency in which any particular note is denominated into U.S. dollars will depend upon various factors, including which court renders the judgment.

Information About Exchange Rates May Not Be Indicative of Future Performance

If we issue a non-U.S. dollar note, we may include in the relevant pricing supplement a currency supplement that provides information about historical exchange rates for the relevant non-U.S. dollar currency or currencies. Any information about exchange rates that we may provide will be furnished as a matter of information only, and you should not regard the information as indicative of the range of, or trends in, fluctuations in currency exchange rates that may occur in the future. That rate will likely differ from the exchange rate used under the terms that apply to a particular note.

Non-U.S. Investors May Be Subject to Certain Additional Risks

If we issue a U.S. dollar note and you are a non-U.S. investor who purchased such notes with a currency other than U.S. dollars, changes in rates of exchange may have an adverse effect on the value, price or income of your investment.

This prospectus supplement contains a general description of certain U.S. and Canadian tax consequences relating to the notes. If 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 resident for tax purposes, of acquiring, holding and disposing of notes and receiving payments of principal or other amounts under the notes.

**USE OF PROCEEDS**

Except as otherwise set forth in a pricing supplement, the net proceeds from the sale of any notes will be added to our general funds and will be used for general banking purposes.

**DESCRIPTION OF THE NOTES WE MAY OFFER**

You should carefully read the description of the terms and provisions of our debt securities and our senior indenture under “Description of Debt Securities” in the accompanying prospectus. That section, together with this prospectus supplement and the applicable pricing supplement, summarizes all the material terms of our senior indenture and your note. They do not, however, describe every aspect of our senior indenture and your note. For example, in this section entitled “Description of the Notes We May Offer”, the accompanying prospectus and the applicable pricing supplement, we use terms that have been given special meanings in our senior indenture, but we describe the meanings of only the more important of those terms. The specific terms of any series of notes will be described in the relevant pricing supplement. As you read this section, please remember that the specific terms of your note as described in your pricing supplement will supplement and, if applicable, may modify or replace the general terms described in this section. If your pricing supplement is inconsistent with this prospectus supplement or the accompanying prospectus, your pricing supplement will control with regard to your note. Thus, the statements we make in this section may not apply to your note.

**General**

The notes will be issued under our senior indenture, dated as of October 23, 2003, between Royal Bank of Canada and The Bank of New York Mellon, as successor to the corporate trust business of JPMorgan Chase Bank, N.A., as trustee, as supplemented by a first supplemental indenture, dated as of July 21, 2006, and by the second supplemental indenture, dated as of February 28, 2007, and as further amended from time to time, which we may refer to as the Indenture. The notes constitute a single series of debt securities of Royal Bank of Canada issued under the indenture. The term “debt securities”, as used in this prospectus supplement, refers to all debt securities, including the notes, issued and issuable from time to time under the indenture. The indenture is subject to, and governed by, the Trust Indenture Act of 1939, as amended. The indenture is more fully described below in this section. Whenever we refer to specific provisions or defined terms in the indenture, those provisions or defined terms are incorporated in this prospectus supplement by reference. Section references used in this discussion are references to the indenture. Capitalized terms which are not otherwise defined shall have the meanings given to them in the indenture.

The notes will be limited to an aggregate initial offering price of US$ 8,000,000,000 or at our option if so specified in the relevant pricing supplement, the equivalent of this amount in any other currency or currency unit, and will be our direct, unsecured obligations. This aggregate initial offering price is subject to reduction as a result of the sale by us of other debt securities pursuant to another prospectus supplement to the accompanying prospectus. 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 governmental agency or instrumentality.

We will offer the notes on a continuous basis through one or more agents listed in the section entitled “Supplemental Plan of Distribution” in this prospectus supplement. The indenture does not limit the aggregate principal amount of senior notes that we may issue. We may, from time to time, without the consent of the holders of the notes, provide for the issuance of notes or other debt securities under the indenture in addition to the US$ 8,000,000,000 aggregate initial offering price of notes noted on the cover.
of this prospectus supplement. Each note issued under this prospectus supplement will have a stated maturity that will be specified in the applicable pricing supplement and may be subject to redemption or repayment before its stated maturity. As a general matter, each note will mature nine months or more from its date of issue, except that indexed notes may have a maturity of less than nine months. Notes may be issued at significant discounts from their principal amount due on the stated maturity (or on any prior date on which the principal or an installment of principal of a note becomes due and payable, whether by the declaration of acceleration, call for redemption at our option, repayment at the option of the holder or otherwise), and some notes may not bear interest. We may from time to time, without the consent of the existing holders of the relevant notes, create and issue further notes having the same terms and conditions as such notes in all respects, except for the issue date, issue price and, if applicable, the first payment of interest thereon.

Unless we specify otherwise in the relevant pricing supplement, currency amounts in this prospectus supplement are expressed in U.S. dollars. Unless we specify otherwise in any note and pricing supplement, the notes will be denominated in U.S. dollars and payments of principal, premium, if any, and any interest on the notes will be made in U.S. dollars. If any note is to be denominated other than exclusively in U.S. dollars, or if the principal of, premium, if any, or any interest on the note is to be paid in one or more currencies (or currency units or in amounts determined by reference to an index or indices) other than that in which that note is denominated, additional information (including authorized denominations and related exchange rate information) will be provided in the relevant pricing supplement. Unless we specify otherwise in any pricing supplement, notes denominated in U.S. dollars will be issued in minimum denominations of $1,000 and integral multiples of $1,000 in excess thereof (except that non-U.S. investors may be subject to higher minimums).

Interest rates that we offer on the notes may differ depending upon, among other factors, the aggregate principal amount of notes purchased in any single transaction. Notes with different variable terms other than interest rates may also be offered concurrently to different investors. We may change interest rates or formulas and other terms of notes from time to time, but no change of terms will affect any note we have previously issued or as to which we have accepted an offer to purchase.

Each note will be issued as a book-entry note in fully registered form without coupons. Each note issued in book-entry form may be represented by a global note that we deposit with and register in the name of a financial institution or its nominee, that we select. The financial institution that we select for this purpose is called the depositary. Unless we specify otherwise in the applicable pricing supplement, The Depository Trust Company, New York, New York, will be the depositary for all notes in global form. Except as discussed in the accompanying prospectus under “Description of Debt Securities—Ownership and Book-Entry Issuance”, owners of beneficial interests in book-entry notes will not be entitled to physical delivery of notes in certificated form. We will make payments of principal of, and premium, if any and interest, if any, on the notes through the applicable trustee to the depositary for the notes.

**Legal Ownership**

**Street Name and Other Indirect Holders**

Investors who hold their notes in accounts at banks or brokers will generally not be recognized by us as legal holders of notes. This is called holding in street name. Instead, we would recognize only the bank or broker, or the financial institution the bank or broker uses to hold its notes. These intermediary banks, brokers and other financial institutions pass along principal, interest and other payments on the notes, either because they agree to do so in their customer agreements or because they are legally required to do so. If you hold your notes in street name, you should check with your own institution to find out:

- how it handles note payments and notices;
whether it imposes fees or charges;

how it would handle voting if it were ever required;

whether and how you can instruct it to send you notes registered in your own name so you can be a direct holder as described below; and

how it would pursue rights under the notes if there were a default or other event triggering the need for holders to act to protect their interests.

Direct Holders

Our obligations, as well as the obligations of the trustee and those of any third parties employed by us or the trustee, under the notes run only to persons who are registered as holders of notes. As noted above, we do not have obligations to you if you hold in street name or other indirect means, either because you choose to hold your notes in that manner or because the notes are issued in the form of global securities as described below. For example, once we make payment to the registered holder we have no further responsibility for the payment even if that holder is legally required to pass the payment along to you as a street name customer but does not do so.

Global Notes

A global note is a special type of indirectly held security, as described above under “—Street Name and Other Indirect Holders”. If we choose to issue notes in the form of global notes, the ultimate beneficial owners of global notes can only be indirect holders. We require that the global note be registered in the name of a financial institution we select.

We also require that the notes included in the global note not be transferred to the name of any other direct holder except in the special circumstances described in the accompanying prospectus in the section “Description of Debt Securities—Ownership and Book-Entry Issuance”. The financial institution that acts as the sole direct holder of the global note is called the depositary. Any person wishing to own a global note must do so indirectly by virtue of an account with a broker, bank or other financial institution, known as a “participant”, that in turn has an account with the depositary. The pricing supplement indicates whether your series of notes will be issued only in the form of global notes.

Further details of legal ownership are discussed in the accompanying prospectus in the section “Ownership and Book-Entry Issuance”.

In the remainder of this description, “you” or “holder” means direct holders and not street name or other indirect holders of notes. Indirect holders should read the previous subsection titled “—Street Name and Other Indirect Holders”.

Types of Notes

We may issue the following three types of notes:

- **Fixed Rate Notes.** A note of this type will bear interest at a fixed rate described in the applicable pricing supplement. This type includes zero-coupon notes, which bear no interest and are instead issued at a price lower than the principal amount.

- **Rate Notes.** A note of this type will bear interest at rates that are determined by reference to an interest rate formula. In some cases, the rates may also be adjusted by adding or subtracting a spread or multiplying by a spread multiplier and may be subject to a minimum rate or a maximum rate. The various interest rate formulas and these other features are described below.
in “—Interest Rates—Floating Rate Notes”. If your note is a floating rate note, the formula and any adjustments that apply to the interest rate will be specified in your pricing supplement.

- **Indexed Notes.** A note of this type provides that the principal amount payable at its maturity, and/or the amount of interest payable on an interest payment date, will be determined by reference to:
  - one or more securities;
  - one or more currencies;
  - one or more commodities;
  - any other financial, economic or other measures or instruments, including the occurrence or non-occurrence of any event or circumstance; and/or
  - indices or baskets of any of these items.

If you are a holder of an indexed note, you may receive a principal amount at maturity that is greater than or less than the face amount of your note depending upon the value of the applicable index at maturity. That value may fluctuate over time. If you purchase an indexed note your pricing supplement will include information about the relevant index and how amounts that are to become payable will be determined by reference to that index. In addition, your pricing supplement will specify whether your note will be exchangeable for, or payable in cash, securities of an issuer other than Royal Bank of Canada or other property. Before you purchase any indexed note, you should read carefully the section entitled “Risk Factors—Risks Relating to Indexed Notes” above.

**Original Issue Discount Notes**

A fixed rate note, a floating rate note or an indexed note may be an original issue discount note. A note of this type is issued at a price lower than its principal amount and provides that, upon redemption or acceleration of its maturity, an amount less than its principal amount will be payable. An original issue discount note may be a zero-coupon note. A note issued at a discount to its principal may, for U.S. federal income tax purposes, be considered an original issue discount note, regardless of the amount payable upon redemption or acceleration of maturity. See “Tax Consequences—Taxation of Debt Securities” in the accompanying prospectus for a brief description of the U.S. federal income tax consequences of owning an original issue discount note.

**Information in the Pricing Supplement**

Your pricing supplement will describe one or more of the following terms of your note:

- the stated maturity;
- the specified currency or currencies for principal and interest, if not U.S. dollars;
- the price at which we originally issue your note, expressed as a percentage of the principal amount, and the original issue date;
- whether your note is a fixed rate note, a floating rate note or an indexed note;
- if your note is a fixed rate note, the yearly rate at which your note will bear interest, if any, and the interest payment dates;
• if your note is a floating rate note, the interest rate basis, which may be one of the eight interest rate bases described in “—Interest Rates—Floating Rate Notes” below; any applicable index currency or maturity, spread or spread multiplier or initial, maximum or minimum rate; and the interest reset, determination, calculation and payment dates, all of which we describe under “—Interest Rates—Floating Rate Notes” below;

• if your note is an indexed note, the principal amount, if any, we will pay you at maturity, the amount of interest, if any, we will pay you on an interest payment date or the formula we will use to calculate these amounts, if any, and whether your note will be exchangeable in cash, securities of an issuer other than Royal Bank of Canada or other property;

• if your note is an original issue discount note, the yield to maturity;

• if applicable, the circumstances under which your note may be redeemed at our option before the stated maturity, including any redemption commencement date, redemption price(s) and redemption period(s);

• if applicable, the circumstances under which you may demand repayment of your note before the stated maturity, including any repayment commencement date, repayment price(s) and repayment period(s);

• any special Canadian or United States federal income tax consequences of the purchase, ownership or disposition of a particular issuance of notes;

• the use of proceeds, if materially different than those discussed in this prospectus supplement; and

• any other terms of your note, which could be different from those described in this prospectus supplement.

Market-Making Transactions

If you purchase your note in a market-making transaction, you will receive information about the price you pay and your trade and settlement dates in a separate confirmation of sale. A market-making transaction is one in which an agent or other person resells a note that it has previously acquired from another holder. A market-making transaction in a particular note occurs after the original sale of the note.

Redemption at the Option of Royal Bank of Canada; No Sinking Fund

If an initial redemption date is specified in the applicable pricing supplement, we may redeem the particular notes prior to their stated maturity date at our option on any date on or after that initial redemption date in whole or from time to time in part in increments of $1,000 or any other integral multiple of an authorized denomination specified in the applicable pricing supplement (provided that any remaining principal amount thereof shall be at least $1,000 or other minimum authorized denomination applicable thereto), at the redemption price or prices specified in that pricing supplement, together with unpaid interest accrued thereon to the date of redemption. Unless otherwise specified in the applicable pricing supplement, we must give written notice to registered holders of the particular notes to be redeemed at our option not more than 60 nor less than 30 calendar days prior to the date of redemption.

The notes will not be subject to, or entitled to the benefit of, any sinking fund.
Repayment at the Option of the Holder

If one or more optional repayment dates are specified in the applicable pricing supplement, registered holders of the particular notes may require us to repay those notes prior to their stated maturity date on any optional repayment date in whole or from time to time in part in increments of $1,000 or any other integral multiple of an authorized denomination specified in the applicable pricing supplement (provided that any remaining principal amount thereof shall be at least $1,000 or other minimum authorized denomination applicable thereto), at the repayment price or prices specified in that pricing supplement, together with unpaid interest accrued thereon to the date of repayment. A registered holder’s exercise of the repayment option will be irrevocable.

For any note to be repaid, the applicable trustee must receive, at its corporate trust office in the Borough of Manhattan, The City of New York, not more than 60 nor less than 30 calendar days prior to the date of repayment, the particular notes to be repaid and, in the case of a book-entry note, repayment instructions from the applicable beneficial owner to the depositary and forwarded by the depositary. Only the depositary may exercise the repayment option in respect of global notes representing book-entry notes. Accordingly, beneficial owners of global notes that desire to have all or any portion of the book-entry notes represented thereby repaid must instruct the participant through which they own their interest to direct the depositary to exercise the repayment option on their behalf by forwarding the repayment instructions to the applicable trustee as aforesaid. In order to ensure that these instructions are received by the applicable trustee on a particular day, the applicable beneficial owner must so instruct the participant through which it owns its interest before that participant’s deadline for accepting instructions for that day. Different firms may have different deadlines for accepting instructions from their customers. Accordingly, beneficial owners should consult their participants for the respective deadlines. In addition, at the time repayment instructions are given, each beneficial owner shall cause the participant through which it owns its interest to transfer the beneficial owner’s interest in the global note representing the related book-entry notes, on the depositary’s records, to the applicable trustee.

If applicable, we will comply with the requirements of Section 14(e) of the Securities Exchange Act of 1934, as amended (the “Exchange Act”), and the rules promulgated thereunder, and any other securities laws or regulations in connection with any repayment of notes at the option of the registered holders thereof.

We may at any time purchase notes at any price or prices in the open market or otherwise. Notes so purchased by us may, at our discretion, be held, resold or surrendered to the applicable trustee for cancellation.

Interest

Each interest-bearing note will bear interest from its date of issue at the rate per annum, in the case of a fixed rate note, or pursuant to the interest rate formula, in the case of a floating rate note, in each case as specified in the applicable pricing supplement, until the principal thereof is paid. We will make interest payments in respect of fixed rate notes and floating rate notes in an amount equal to the interest accrued from and including the immediately preceding interest payment date in respect of which interest has been paid or from and including the date of issue, if no interest has been paid, to but excluding the applicable interest payment date or the maturity date, as the case may be (each, an “interest period”).

Interest on fixed rate notes and floating rate notes will be payable in arrears on each interest payment date and on the maturity date. The first payment of interest on any note originally issued between a regular record date and the related interest payment date will be made on the interest payment date immediately following the next succeeding record date to the registered holder on the next succeeding record date. The “regular record date” shall be the fifteenth calendar day, whether or not a “business day”, immediately preceding the related interest payment date. “Business day” is defined below under “—Interest Rates—Special Rate Calculation Terms”. For the purpose of determining the holder at the
close of business on a regular record date when business is not being conducted, the close of business will mean 5:00 P.M., New York City time, on that day.

Interest Rates

This subsection describes the different kinds of interest rates that may apply to your note, if it bears interest.

Fixed Rate Notes

The relevant pricing supplement will specify the interest payment dates for a fixed rate note as well as the maturity date. Interest on fixed rate notes will be computed on the basis of a 360-day year consisting of twelve 30-day months or such other day count fraction set forth in the pricing supplement.

If any interest payment date or the maturity date of a fixed rate note falls on a day that is not a business day, we will make the required payment of principal, premium, if any, and/or interest on the next succeeding business day, and no additional interest will accrue in respect of the payment made on that next succeeding business day.

Floating Rate Notes

In this subsection, we use several specialized terms relating to the manner in which floating interest rates are calculated. These terms appear in bold, italicized type the first time they appear, and we define these terms in “—Special Rate Calculation Terms” at the end of this subsection.

The following will apply to floating rate notes.

Interest Rate Basis. We currently expect to issue floating rate notes that bear interest at rates based on one or more of the following interest rate bases:

- commercial paper rate;
- U.S. prime rate;
- LIBOR;
- EURIBOR;
- treasury rate;
- CMT rate;
- CD rate;
- CMS rate; and/or
- federal funds rate.

We describe each of the interest rate bases in further detail below in this subsection. If you purchase a floating rate note, your pricing supplement will specify the interest rate basis that applies to your note.

Calculation of Interest. Calculations relating to floating rate notes will be made by the calculation agent, an institution that we appoint as our agent for this purpose. That institution may include any affiliate of ours, such as RBC Capital Markets Corporation. The pricing supplement for a particular floating rate note will name the institution that we have appointed to act as the calculation agent for that
For each floating rate note, the calculation agent will determine, on the corresponding interest calculation date or on the interest determination date, as described below, the interest rate that takes effect on each interest reset date. In addition, the calculation agent will calculate the amount of interest that has accrued during each interest period—that is, the period from and including the original issue date, or the last date to which interest has been paid or made available for payment, to but excluding the payment date. For each interest period, the calculation agent will calculate the amount of accrued interest by multiplying the face or other specified amount of the floating rate note by an accrued interest factor for the interest period. This factor will equal the sum of the interest factors calculated for each day during the interest period. The interest factor for each day will be expressed as a decimal and will be calculated by dividing the interest rate, also expressed as a decimal, applicable to that day by 360 or by the actual number of days in the year, as specified in the relevant pricing supplement.

Upon the request of the holder of any floating rate note, the calculation agent will provide for that note the interest rate then in effect—and, if determined, the interest rate that will become effective on the next interest reset date. The calculation agent’s determination of any interest rate, and its calculation of the amount of interest for any interest period, will be final and binding in the absence of manifest error.

All percentages resulting from any calculation relating to a note will be rounded upward or downward, as appropriate, to the next higher or lower one hundred-thousandth of a percentage point, e.g., 9.876541% (or .09876541) being rounded down to 9.87654% (or .0987654) and 9.876545% (or .09876545) being rounded up to 9.87655% (or .0987655). All amounts used in or resulting from any calculation relating to a floating rate note will be rounded upward or downward, as appropriate, to the nearest cent, in the case of U.S. dollars, or to the nearest corresponding hundredth of a unit, in the case of a currency other than U.S. dollars, with one-half cent or one-half of a corresponding hundredth of a unit or more being rounded upward.

In determining the interest rate basis that applies to a floating rate note during a particular interest period, the calculation agent may obtain rate quotes from various banks or dealers active in the relevant market, as discussed below. Those reference banks and dealers may include the calculation agent itself and its affiliates, as well as any agent participating in the distribution of the relevant floating rate notes and its affiliates, and they may include our affiliates.

Initial Interest Rate. For any floating rate note, the interest rate in effect from the original issue date to the first interest reset date will be the initial interest rate. We will specify the initial interest rate or the manner in which it is determined in the relevant pricing supplement.

Spread or Spread Multiplier. In some cases, the interest rate basis for a floating rate note may be adjusted:

- by adding or subtracting a specified number of basis points, called the spread, with one basis point being 0.01%; or

- by multiplying the interest rate basis by a specified percentage, called the spread multiplier.

If you purchase a floating rate note, your pricing supplement will indicate whether a spread or spread multiplier will apply to your note and, if so, the amount of the spread or spread multiplier.

Maximum and Minimum Rates. The actual interest rate, after being adjusted by the spread or spread multiplier, may also be subject to either or both of the following limits:
• a maximum rate—i.e., a specified upper limit that the actual interest rate in effect at any time may not exceed; and/or

• a minimum rate—i.e., a specified lower limit that the actual interest rate in effect at any time may not fall below.

If you purchase a floating rate note, your pricing supplement will indicate whether a maximum rate and/or minimum rate will apply to your note and, if so, what those rates are.

Whether or not a maximum rate applies, the interest rate on a floating rate note will in no event be higher than the maximum rate permitted by New York law, as it may be modified by U.S. law of general application and the Criminal Code (Canada). Under current New York law, the maximum rate of interest, with some exceptions, for any loan in an amount less than $250,000 is 16% and for any loan in the amount of $250,000 or more but less than $2,500,000 is 25% per year on a simple interest basis. These limits do not apply to loans of $2,500,000 or more, except for the Criminal Code (Canada), which limits the rate to 60%.

The rest of this subsection describes how the interest rate and the interest payment dates will be determined, and how interest will be calculated, on a floating rate note.

**Interest Reset Dates.** The rate of interest on a floating rate note will be reset, by the calculation agent described below, daily, weekly, monthly, quarterly, semi-annually or annually. The date on which the interest rate resets and the reset rate becomes effective is called the interest reset date. Except as otherwise specified in the applicable pricing supplement, the interest reset date will be as follows:

• for floating rate notes that reset daily, each business day;

• for floating rate notes that reset weekly and are not treasury rate notes, the Wednesday of each week;

• for treasury rate notes that reset weekly, the Tuesday of each week;

• for floating rate notes that reset monthly, the third Wednesday of each month;

• for floating rate notes that reset quarterly, the third Wednesday of each of four months of each year as indicated in the relevant pricing supplement;

• for floating rate notes that reset semi-annually, the third Wednesday of each of two months of each year as indicated in the relevant pricing supplement; and

• for floating rate notes that reset annually, the third Wednesday of one month of each year as indicated in the relevant pricing supplement.

For a floating rate note, the interest rate in effect on any particular day will be the interest rate determined with respect to the latest interest reset date that occurs on or before that day. There are several exceptions, however, to the reset provisions described above.

If any interest reset date for a floating rate note would otherwise be a day that is not a business day, the interest reset date will be postponed to the next day that is a business day. For a LIBOR or EURIBOR note, however, if that business day is in the next succeeding calendar month, the interest reset date will be the immediately preceding business day.
Interest Determination Dates. The interest rate that takes effect on an interest reset date will be determined by the calculation agent by reference to a particular date called an interest determination date. Except as otherwise indicated in the relevant pricing supplement:

- for commercial paper rate, federal funds rate and U.S. prime rate notes, the interest determination date relating to a particular interest reset date will be the business day preceding the interest reset date;

- for LIBOR notes, the interest determination date relating to a particular interest reset date will be the second London business day preceding the interest reset date, unless the index currency is pounds sterling, in which case the interest determination date will be the interest reset date. We refer to an interest determination date for a LIBOR note as a LIBOR interest determination date;

- for EURIBOR notes, the interest determination date relating to a particular interest reset date will be the second euro business day preceding the interest reset date. We refer to an interest determination date for a EURIBOR note as a EURIBOR interest determination date;

- for treasury rate notes, the interest determination date relating to a particular interest reset date, which we refer to as a treasury interest determination date, will be the day of the week in which the interest reset date falls on which treasury bills—i.e., direct obligations of the U.S. government—would normally be auctioned. Treasury bills are usually sold at auction on the Monday of each week, unless that day is a legal holiday, in which case the auction is usually held on the following Tuesday, except that the auction may be held on the preceding Friday. If as the result of a legal holiday an auction is held on the preceding Friday, that Friday will be the treasury interest determination date relating to the interest reset date occurring in the next succeeding week; and

- for CD rate, CMT rate and CMS rate notes, the interest determination date relating to a particular interest reset date will be the second business day preceding the interest reset date.

The interest determination date pertaining to a floating rate note the interest rate of which is determined with reference to two or more interest rate bases will be the latest business day which is at least two business days before the related interest reset date for the applicable floating rate note on which each interest rate basis is determinable.

Interest Calculation Dates. As described above, the interest rate that takes effect on a particular interest reset date will be determined by reference to the corresponding interest determination date. Except for LIBOR notes and EURIBOR notes, however, the determination of the rate will actually be made on a day no later than the corresponding interest calculation date. The interest calculation date will be the earlier of the following:

- the tenth calendar day after the interest determination date or, if that tenth calendar day is not a business day, the next succeeding business day; and

- the business day immediately preceding the interest payment date or the maturity, whichever is the day on which the next payment of interest will be due.

The calculation agent need not wait until the relevant interest calculation date to determine the interest rate if the rate information it needs to make the determination is available from the relevant sources sooner.
**Interest Payment Dates.** The interest payment dates for a floating rate note will depend on when the interest rate is reset and, unless we specify otherwise in the relevant pricing supplement, will be as follows:

- for floating rate notes that reset daily, weekly or monthly, the third Wednesday of each month;
- for floating rate notes that reset quarterly, the third Wednesday of the four months of each year specified in the relevant pricing supplement;
- for floating rate notes that reset semi-annually, the third Wednesday of the two months of each year specified in the relevant pricing supplement; or
- for floating rate notes that reset annually, the third Wednesday of the month specified in the relevant pricing supplement.

Regardless of these rules, if a note is originally issued after the regular record date and before the date that would otherwise be the first interest payment date, the first interest payment date will be the date that would otherwise be the second interest payment date.

In addition, the following special provision will apply to a floating rate note with regard to any interest payment date other than one that falls on the maturity. If the interest payment date would otherwise fall on a day that is not a business day, then the interest payment date will be the next day that is a business day. However, if the floating rate note is a LIBOR note or a EURIBOR note and the next business day falls in the next calendar month, then the interest payment date will be advanced to the next preceding day that is a business day. If the maturity date of a floating rate note falls on a day that is not a business day, we will make the required payment of principal, premium, if any, and interest on the next succeeding business day, and no additional interest will accrue in respect of the payment made on that next succeeding business day.

**Calculation Agent.** We have initially appointed The Bank of New York Mellon as our calculation agent for the notes. See “—Calculation of Interest” above for details regarding the role of the calculation agent.

**Commercial Paper Rate Notes**

If you purchase a commercial paper rate note, your note will bear interest at an interest rate equal to the commercial paper rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The commercial paper rate will be the *money market yield* of the rate, for the relevant interest determination date, for commercial paper having the *index maturity* indicated in your pricing supplement, as published in *H.15(519)* under the heading “Commercial Paper—Nonfinancial”. If the commercial paper rate cannot be determined as described above, the following procedures will apply.

- If the rate described above does not appear in *H.15(519)* at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, then the commercial paper rate will be the rate, for the relevant interest determination date, for commercial paper having the index maturity specified in your pricing supplement, as published in *H.15 daily update* or any other recognized electronic source used for displaying that rate, under the heading “Commercial Paper—Nonfinancial”.

- If the rate described above does not appear in *H.15(519)*, *H.15 daily update* or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest
calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the commercial paper rate will be the money market yield of the arithmetic mean of the following offered rates for U.S. dollar commercial paper that has the relevant index maturity and is placed for an industrial issuer whose bond rating is “AA”, or the equivalent, from a nationally recognized rating agency: the rates offered as of 11:00 A.M., New York City time, on the relevant interest determination date, by three leading U.S. dollar commercial paper dealers in New York City selected by the calculation agent.

- If fewer than three dealers selected by the calculation agent are quoting as described above, the commercial paper rate for the new interest period will be the commercial paper rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

U.S. Prime Rate Notes

If you purchase a U.S. prime rate note, your note will bear interest at an interest rate equal to the U.S. prime rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The U.S. prime rate will be the rate, for the relevant interest determination date, published in H.15(519) under the heading “Bank Prime Loan”. If the U.S. prime rate cannot be determined as described above, the following procedures will apply.

- If the rate described above does not appear in H.15(519) at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, then the U.S. prime rate will be the rate, for the relevant interest determination date, as published in H.15 daily update or another recognized electronic source used for the purpose of displaying that rate, under the heading “Bank Prime Loan”.

- If the rate described above does not appear in H.15(519), H.15 daily update or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, then the U.S. prime rate will be the arithmetic mean of the following rates as they appear on the Reuters screen US PRIME 1 page: the rate of interest publicly announced by each bank appearing on that page as that bank’s prime rate or base lending rate, as of 11:00 A.M., New York City time, on the relevant interest determination date.

- If fewer than four of these rates appear on the Reuters screen US PRIME 1 page, the U.S. prime rate will be the arithmetic mean of the prime rates or base lending rates, as of the close of business on the relevant interest determination date, of three major banks in New York City selected by the calculation agent. For this purpose, the calculation agent will use rates quoted on the basis of the actual number of days in the year divided by a 360-day year.

- If fewer than three banks selected by the calculation agent are quoting as described above, the U.S. prime rate for the new interest period will be the U.S. prime rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

LIBOR Notes

If you purchase a LIBOR note, your note will bear interest at an interest rate equal to LIBOR, which will be the London interbank offered rate for deposits in U.S. dollars or any other index currency, as noted in your pricing supplement. In addition, when LIBOR is the interest rate basis the applicable
LIBOR rate will be adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement. LIBOR will be determined in the following manner:

- LIBOR will be either:
  - the offered rate appearing on the Reuters Page LIBOR01; or
  - the arithmetic mean of the offered rates appearing on the Reuters screen LIBO page unless that page by its terms cites only one rate, in which case that rate;

- in either case, as of 11:00 A.M., London time, on the relevant LIBOR interest determination date, for deposits of the relevant index currency having the relevant index maturity beginning on the relevant interest reset date. Your pricing supplement will indicate the index currency, the index maturity and the reference page that apply to your LIBOR note. If no reference page is mentioned in your pricing supplement, Reuters Page LIBOR01 will apply to your LIBOR note.

- If Reuters Page LIBOR01 applies and the rate described above does not appear on that page, or if Reuters screen LIBO page applies and fewer than two of the rates described above appears on that page or no rate appears on any page on which only one rate normally appears, then LIBOR will be determined on the basis of the rates, at approximately 11:00 A.M., London time, on the relevant LIBOR interest determination date, at which deposits of the following kind are offered to prime banks in the London interbank market by four major banks in that market selected by the calculation agent: deposits of the index currency having the relevant index maturity, beginning on the relevant interest reset date, and in a representative amount. The calculation agent will request the principal London office of each of these banks to provide a quotation of its rate. If at least two quotations are provided, LIBOR for the relevant LIBOR interest determination date will be the arithmetic mean of the quotations.

- If fewer than two quotations are provided as described above, LIBOR for the relevant LIBOR interest determination date will be the arithmetic mean of the rates for loans of the following kind to leading European banks quoted, at approximately 11:00 A.M., in the applicable principal financial center, on that LIBOR interest determination date, by three major banks in that financial center selected by the calculation agent: loans of the index currency having the relevant index maturity, beginning on the relevant interest reset date and in a representative amount.

- If fewer than three banks selected by the calculation agent are quoting as described above, LIBOR for the new interest period will be LIBOR in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

**EURIBOR Notes**

If you purchase a EURIBOR note, your note will bear interest at an interest rate equal to the interest rate for deposits in euro, designated as “EURIBOR” and sponsored jointly by the European Banking Federation and ACI—the Financial Market Association, or any company established by the joint sponsors for purposes of compiling and publishing that rate. In addition, when EURIBOR is the interest rate basis the EURIBOR base rate will be adjusted by the spread or spread multiplier, if any, specified in your pricing supplement. EURIBOR will be determined in the following manner:

- EURIBOR will be the offered rate for deposits in euros having the index maturity specified in your pricing supplement, beginning on the second euro business day after the relevant
EURIBOR interest determination date, as that rate appears on Reuters page EURIBOR01 as of 11:00 A.M., Brussels time, on the relevant EURIBOR interest determination date.

- If the rate described above does not appear on Reuters page EURIBOR01, EURIBOR will be determined on the basis of the rates, at approximately 11:00 A.M., Brussels time, on the relevant EURIBOR interest determination date, at which deposits of the following kind are offered to prime banks in the euro-zone interbank market by the principal euro-zone office of each of four major banks in that market selected by the calculation agent: euro deposits having the relevant index maturity, beginning on the relevant interest reset date, and in a representative amount. The calculation agent will request the principal euro-zone office of each of these banks to provide a quotation of its rate. If at least two quotations are provided, EURIBOR for the relevant EURIBOR interest determination date will be the arithmetic mean of the quotations.

- If fewer than two quotations are provided as described above, EURIBOR for the relevant EURIBOR interest determination date will be the arithmetic mean of the rates for loans of the following kind to leading euro-zone banks quoted, at approximately 11:00 A.M., Brussels time on that EURIBOR interest determination date, by three major banks in the euro-zone selected by the calculation agent: loans of euros having the relevant index maturity, beginning on the relevant interest reset date, and in a representative amount.

- If fewer than three banks selected by the calculation agent are quoting as described above, EURIBOR for the new interest period will be EURIBOR in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

*Treasury Rate Notes*

If you purchase a treasury rate note, your note will bear interest at an interest rate equal to the treasury rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The treasury rate will be the rate for the auction, on the relevant treasury interest determination date, of treasury bills having the index maturity specified in your pricing supplement, as that rate appears on Reuters page USAUCTION 10/11. If the treasury rate cannot be determined in this manner, the following procedures will apply.

- If the rate described above does not appear on either page at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, the treasury rate will be the *bond equivalent yield* of the rate, for the relevant interest determination date, for the type of treasury bill described above, as published in H.15 daily update, or another recognized electronic source used for displaying that rate, under the heading “U.S. Government Securities/Treasury Bills/Auction High”.

- If the rate described in the prior paragraph does not appear in H.15 daily update or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the treasury rate will be the *bond equivalent yield* of the auction rate, for the relevant treasury interest determination date and for treasury bills of the kind described above, as announced by the U.S. Department of the Treasury.

- If the auction rate described in the prior paragraph is not so announced by 3:00 P.M., New York City time, on the relevant interest calculation date, or if no such auction is held for the relevant week, then the treasury rate will be the bond equivalent yield of the rate, for the relevant
treasury interest determination date and for treasury bills having a remaining maturity closest to the specified index maturity, as published in H.15(519) under the heading “U.S. Government Securities/Treasury Bills/Secondary Market”.

- If the rate described in the prior paragraph does not appear in H.15(519) at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, then the treasury rate will be the rate, for the relevant treasury interest determination date and for treasury bills having a remaining maturity closest to the specified index maturity, as published in H.15 daily update, or another recognized electronic source used for displaying that rate, under the heading “U.S. Government Securities/Treasury Bills/Secondary Market”.

- If the rate described in the prior paragraph does not appear in H.15 daily update or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the treasury rate will be the bond equivalent yield of the arithmetic mean of the following secondary market bid rates for the issue of treasury bills with a remaining maturity closest to the specified index maturity: the rates bid as of approximately 3:30 P.M., New York City time, on the relevant treasury interest determination date, by three primary U.S. government securities dealers in New York City selected by the calculation agent.

- If fewer than three dealers selected by the calculation agent are quoting as described in the prior paragraph, the treasury rate in effect for the new interest period will be the treasury rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

CD Rate Notes

If you purchase a CD rate note, your note will bear interest at an interest rate equal to the CD rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The CD rate will be the rate, on the relevant interest determination date, for negotiable U.S. dollar certificates of deposit having the index maturity specified in your pricing supplement, as published in H.15(519) under the heading “CDs (Secondary Market)”. If the CD rate cannot be determined in this manner, the following procedures will apply.

- If the rate described above does not appear in H.15(519) at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, then the CD rate will be the rate, for the relevant interest determination date, described above as published in H.15 daily update, or another recognized electronic source used for displaying that rate, under the heading “CDs (Secondary Market)”.

- If the rate described above does not appear in H.15(519), H.15 daily update or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the CD rate will be the arithmetic mean of the following secondary market offered rates for negotiable U.S. dollar certificates of deposit of major U.S. money market banks with a remaining maturity closest to the specified index maturity, and in a representative amount: the rates offered as of 10:00 A.M., New York City time, on the relevant interest determination date, by three leading non-bank dealers in negotiable U.S. dollar certificates of deposit in New York City, as selected by the calculation agent.
If fewer than three dealers selected by the calculation agent are quoting as described above, the CD rate in effect for the new interest period will be the CD rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

**CMT Rate Notes**

If you purchase a CMT rate note, your note will bear interest at an interest rate equal to the CMT rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The CMT rate will be the following rate displayed on the designated CMT Reuters page under the heading “. . . Treasury Constant Maturities . . . Federal Reserve Board Release H.15 Mondays Approximately 3:45 P.M.”, under the column for the designated CMT index maturity:

- if the designated CMT Reuters page is Reuters page FRBCMT, the rate for the relevant interest determination date; or

- if the designated CMT Reuters page is Reuters page FEDCMT, the weekly or monthly average, as specified in your pricing supplement, for the week that ends immediately before the week in which the relevant interest determination date falls, or for the month that ends immediately before the month in which the relevant interest determination date falls, as applicable.

If the CMT rate cannot be determined in this manner, the following procedures will apply.

- If the applicable rate described above is not displayed on the relevant designated CMT Reuters page at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, then the CMT rate will be the applicable treasury constant maturity rate described above—i.e., for the designated CMT index maturity and for either the relevant interest determination date or the weekly or monthly average, as applicable—as published in H.15(519).

- If the applicable rate described above does not appear in H.15(519) at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, then the CMT rate will be the treasury constant maturity rate, or other U.S. treasury rate, for the designated CMT index maturity and with reference to the relevant interest determination date, that:
  - is published by the Board of Governors of the Federal Reserve System, or the U.S. Department of the Treasury; and
  - is determined by the calculation agent to be comparable to the applicable rate formerly displayed on the designated CMT Reuters page and published in H.15(519).

- If the rate described in the prior paragraph does not appear at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, then the CMT rate will be the yield to maturity of the arithmetic mean of the following secondary market bid rates for the most recently issued treasury notes having an original maturity of approximately the designated CMT index maturity and a remaining term to maturity of not less than the designated CMT index maturity minus one year, and in a representative amount: the bid rates, as of approximately 3:30 P.M., New York City time, on the relevant interest determination date, of three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid
rates, the calculation agent will request quotations from five of these primary dealers and will disregard the highest quotation—or, if there is equality, one of the highest—and the lowest quotation—or, if there is equality, one of the lowest. Treasury notes are direct, non-callable, fixed rate obligations of the U.S. government.

- If the calculation agent is unable to obtain three quotations of the kind described in the prior paragraph, the CMT rate will be the yield to maturity of the arithmetic mean of the following secondary market bid rates for treasury notes with an original maturity longer than the designated CMT index maturity, with a remaining term to maturity closest to the designated CMT index maturity and in a representative amount: the bid rates, as of approximately 3:30 P.M., New York City time, on the relevant interest determination date, of three primary U.S. government securities dealers in New York City selected by the calculation agent. In selecting these bid rates, the calculation agent will request quotations from five of these primary dealers and will disregard the highest quotation (or, if there is equality, one of the highest) and the lowest quotation (or, if there is equality, one of the lowest). If two treasury notes with an original maturity longer than the designated CMT index maturity have remaining terms to maturity that are equally close to the designated CMT index maturity, the calculation agent will obtain quotations for the treasury note with the shorter remaining term to maturity.

- If fewer than five but more than two of these primary dealers are quoting as described in the prior paragraph, then the CMT rate for the relevant interest determination date will be based on the arithmetic mean of the bid rates so obtained, and neither the highest nor the lowest of those quotations will be disregarded.

- If two or fewer primary dealers selected by the calculation agent are quoting as described above, the CMT rate in effect for the new interest period will be the CMT rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

**CMS Rate Notes**

If you purchase a CMS rate note, your note will bear interest at an interest rate equal to the CMS rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The CMS rate will be the rate for U.S. dollar swaps with a maturity for a specified number of years, expressed as a percentage in the relevant pricing supplement, which appears on the Reuters page **ISDAFIX1** as of 11:00 a.m., New York City time, on the interest rate determination date.

If the CMS rate cannot be determined as described above, the following procedures will be used:

- If the applicable rate described above is not displayed on the relevant designated CMS Reuters page at 11:00 a.m., New York City time, on the interest rate determination date, then the CMS rate will be a percentage determined on the basis of the mid-market, semi-annual swap rate quotations provided by five leading swap dealers in the New York City interbank market at approximately 11:00 a.m., New York City time, on the interest rate determination date. For this purpose, the semi-annual swap rate means the mean of the bid and offered rates for the semi-annual fixed leg, calculated on a 30/360 day count basis, of a fixed-for-floating U.S. dollar interest rate swap transaction with a term equal to the maturity designated in the relevant pricing supplement commencing on that interest rate determination date with an acknowledged dealer of good credit in the swap market, where the floating leg, calculated on an Actual/360 day count basis, is equivalent to “LIBOR Reuters” with a maturity of three
months. The calculation agent will select the five swap dealers after consultation with us and will request the principal New York City office of each of those dealers to provide a quotation of its rate. If at least three quotations are provided, the CMS rate for that interest rate determination date will be the arithmetic mean of the quotations, eliminating the highest and lowest quotations or, in the event of equality, one of the highest and one of the lowest quotations.

- If fewer than three leading swap dealers selected by the calculation agent are quoting as described above, the CMS rate will remain the CMS rate in effect on that interest rate determination date or, if that interest rate determination date is the first reference rate determination date, the initial interest rate.

**Federal Funds Rate Notes**

If you purchase a federal funds rate note, your note will bear interest at an interest rate equal to the federal funds rate and adjusted by the spread or spread multiplier, if any, indicated in your pricing supplement.

The federal funds rate will be the rate for U.S. dollar federal funds on the relevant interest determination date, as published in H.15(519) under the heading “Federal Funds (Effective)”, as that rate is displayed on **Reuters page FEDFUNDS1**. If the federal funds rate cannot be determined in this manner, the following procedures will apply.

- If the rate described above is not displayed on Reuters page FEDFUNDS1 at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from that source at that time, then the federal funds rate, for the relevant interest determination date, will be the rate described above as published in H.15 daily update,

- or another recognized electronic source used for displaying that rate, under the heading “Federal Funds (Effective)”.

- If the rate described above is not displayed on Reuters page FEDFUNDS1 and does not appear in H.15(519), H.15 daily update or another recognized electronic source at 3:00 P.M., New York City time, on the relevant interest calculation date, unless the calculation is made earlier and the rate is available from one of those sources at that time, the federal funds rate will be the arithmetic mean of the rates for the last transaction in overnight, U.S. dollar federal funds arranged, before 9:00 A.M., New York City time, on the relevant interest determination date, by three leading brokers of U.S. dollar federal funds transactions in New York City selected by the calculation agent.

- If fewer than three brokers selected by the calculation agent are quoting as described above, the federal funds rate in effect for the new interest period will be the federal funds rate in effect for the prior interest period. If the initial interest rate has been in effect for the prior interest period, however, it will remain in effect for the new interest period.

**Special Rate Calculation Terms**

In this subsection entitled “—Interest Rates”, we use several terms that have special meanings relevant to calculating floating interest rates. We define these terms as follows:

- The term “bond equivalent yield” means a yield expressed as a percentage and calculated in accordance with the following formula:
bond equivalent yield = \frac{D \times N}{360 - (D \times M)} \times 100

where

“D” means the annual rate for treasury bills quoted on a bank discount basis and expressed as a decimal;

“N” means 365 or 366, as the case may be; and

“M” means the actual number of days in the applicable interest reset period.

The term “business day” means, for any note, a day that meets all the following applicable requirements:

- for all notes, is a Monday, Tuesday, Wednesday, Thursday or Friday that is neither a legal holiday nor a day on which banking institutions are authorized or required by law to close in New York City, Toronto or London;

- if the note has a specified currency other than U.S. dollars or euros, is also a day on which banking institutions are not authorized or obligated by law, regulation or executive order to close in the applicable principal financial center; and

- if the note is a EURIBOR note or has a specified currency of euros, or is a LIBOR note for which the index currency is euros, is also a euro business day.

The term “designated CMT index maturity” means the index maturity for a CMT rate note and will be the original period to maturity of a U.S. treasury security—either 1, 2, 3, 5, 7, 10, 20 or 30 years—specified in the applicable pricing supplement.

The term “designated CMT Reuters page” means the Reuters page mentioned in the relevant pricing supplement that displays treasury constant maturities as reported in H.15(519). If no Reuters page is so specified, then the applicable page will be Reuters page FEDCMT. If Reuters page FEDCMT applies but the relevant pricing supplement does not specify whether the weekly or monthly average applies, the weekly average will apply.

The term “euro business day” means any day on which the Trans-European Automated Real-Time Gross Settlement Express Transfer (TARGET) System, or any successor system, is open for business.

The term “euro-zone” means, at any time, the region comprised of the member states of the European Economic and Monetary Union that, as of that time, have adopted a single currency in accordance with the Treaty on European Union of February 1992.


The term “index currency” means, with respect to a LIBOR note, the currency specified as such in the relevant pricing supplement. The index currency may be U.S. dollars or any other currency, and will be U.S. dollars unless another currency is specified in the relevant pricing supplement.
The term “index maturity” means, with respect to a floating rate note, the period to maturity of the instrument or obligation on which the interest rate formula is based, as specified in the applicable pricing supplement.

“London business day” means any day on which dealings in the relevant index currency are transacted in the London interbank market.

- The term “money market yield” means a yield expressed as a percentage and calculated in accordance with the following formula:

\[
\text{money market yield} = \frac{D \times 360}{360 - (D \times M)} \times 100
\]

where

- “D” means the annual rate for commercial paper quoted on a bank discount basis and expressed as a decimal; and
- “M” means the actual number of days in the relevant interest reset period.

The term “principal financial center” means the capital city of the country to which an index currency relates (or the capital city of the country issuing the specified currency, as applicable), except that with respect to U.S. dollars, Australian dollars, Canadian dollars, South African rands and Swiss francs, the “principal financial center” means The City of New York, Sydney, Toronto, Johannesburg and Zurich, respectively, and with respect to euros the principal financial center means London.

The term “representative amount” means an amount that, in the calculation agent’s judgment, is representative of a single transaction in the relevant market at the relevant time.

- “Reuters Page LIBOR01” means the display designated as “LIBOR01” on Reuters 3000 Xtra (or any successor service) (or such other page as may replace Page LIBOR01 on Reuters 3000 Xtra or any successor service).
- “Reuters screen LIBO page” means the display on the Reuters Monitor Money Rates Service, or any successor service, on the page designated as “LIBO” or any replacement page or pages on which London interbank rates of major banks for the relevant index currency are displayed.
- “Reuters screen US PRIME 1 page” means the display on the “US PRIME 1” page on the Reuters Monitor Money Rates Service, or any successor service, or any replacement page or pages on that service, for the purpose of displaying prime rates or base lending rates of major U.S. banks.
- “Reuters page” means the display on Reuters 3000 Xtra, or any successor service, on the page or pages specified in this prospectus supplement or the relevant pricing supplement, or any replacement page or pages on that service.

If, when we use the terms designated CMT Reuters page, H.15(519), H.15 daily update, Reuters screen LIBO page, Reuters screen US PRIME 1 page, Reuters Page LIBOR01 or Reuters page, we refer to a particular heading or headings on any of those pages, those references include any successor or replacement heading or headings as determined by the calculation agent.

**Other Provisions; Addenda**

Any provisions relating to the notes, including the determination of the interest rate basis, calculation of the interest rate applicable to a floating rate note, its interest payment dates, any redemption or repayment provisions, or any other term relating thereto, may be modified and/or supplemented by the terms as specified under “Other Provisions” on the face of the applicable notes or in an Addendum.
relating to the applicable notes, if so specified on the face of the applicable notes, and, in each case, in the relevant pricing supplement.
CERTAIN INCOME TAX CONSEQUENCES

Certain Canadian Income Tax Considerations

It is the opinion of Ogilvy Renault LLP, Canadian tax counsel to Royal Bank of Canada, that interest (including amounts deemed for purposes of the Income Tax Act (Canada) (the "ITA") to be interest) on the notes issued hereunder that is paid or credited or deemed for purposes of the ITA to be paid or credited to a Non-Resident Holder will not be subject to Canadian non-resident withholding tax, except in the circumstances described under “Tax Consequences – Canadian Taxation” in the accompanying prospectus.

United States Taxation

It is the opinion of Sullivan & Cromwell LLP, United States tax counsel to Royal Bank of Canada, that commercial paper rate notes, prime rate notes, LIBOR notes, EURIBOR notes, treasury rate notes, CMT rate notes, CMS rate notes, CD rate notes and federal funds rate notes generally will be treated as variable rate debt securities under the rules described under “Tax Consequences – United States Taxation – Taxation of Debt Securities – Original Issue Discount – Variable Rate Debt Securities” in the accompanying prospectus.
SUPPLEMENTAL PLAN OF DISTRIBUTION

We and RBC Capital Markets Corporation, Banc of America Securities LLC, Barclays Capital Inc., Citigroup Global Markets Inc., Goldman, Sachs & Co., Merrill Lynch, Pierce, Fenner & Smith Incorporated, Morgan Stanley & Co. Incorporated and UBS Financial Services Inc., as agents, have entered into a distribution agreement with respect to the notes. The agent or agents through whom the notes will be offered will be identified in the applicable pricing supplement. Subject to certain conditions, the agents have agreed to use their reasonable efforts to solicit purchases of the notes. We have the right to accept offers to purchase notes and may reject any proposed purchase of the notes. The agents may also reject any offer to purchase notes. We will pay the agents a commission on any notes sold through the agents. The commission is expected to range from 0% to 1% of the principal amount of the notes, depending on the stated maturity of the notes, for fixed rate and floating rate notes. The commission is expected to range from 1% to 5% of the principal amount of the notes for indexed and other structured notes, or in such other amount as may be agreed between the agents and Royal Bank of Canada.

We may also sell notes to the agents, who will purchase the notes as principal for their own accounts. In that case, the agents will purchase the notes at a price equal to the issue price specified in the applicable pricing supplement, less a discount to be agreed with us at the time of the offering.

The agents may resell any notes they purchase as principal to other brokers or dealers at a discount, which may include all or part of the discount the agents received from us. If all the notes are not sold at the initial offering price, the agents may change the offering price and the other selling terms.

We may also sell notes directly to investors. We will not pay commissions on notes we sell directly.

We have reserved the right to withdraw, cancel or modify the offer made by this prospectus supplement without notice and may reject orders in whole or in part whether placed directly with us or with an agent. No termination date has been established for the offering of the notes.

The agents, whether acting as agent or principal, may be deemed to be “underwriters” within the meaning of the Securities Act of 1933. We have agreed to indemnify the agents against certain liabilities, including liabilities under the Securities Act of 1933, or to contribute to payments made in respect of those liabilities.

If the agents sell notes to dealers who resell to investors and the agents pay the dealers all or part of the discount or commission they receive from us, those dealers may also be deemed to be “underwriters” within the meaning of the Securities Act of 1933.

Unless otherwise indicated in any pricing supplement, payment of the purchase price of notes, other than notes denominated in a non-U.S. dollar currency, will be required to be made in funds immediately available in The City of New York. The notes will be in the Same Day Funds Settlement System at DTC and, to the extent the secondary market trading in the notes is effected through the facilities of such depositary, such trades will be settled in immediately available funds.

We may appoint additional agents with respect to the notes. Any other agents will be named in the applicable pricing supplements and those agents will enter into the distribution agreement referred to above. The agents referred to above and any additional agents may engage in commercial banking and investment banking and other transactions with and perform services for Royal Bank of Canada and our affiliates in the ordinary course of business. RBC Capital Markets Corporation is an affiliate of the Royal Bank of Canada and may resell notes to or through another of our affiliates, as selling agent.

The notes are a new issue of securities, and there will be no established trading market for any note before its original issue date. We do not plan to list the notes on a securities exchange or quotation system. We have been advised by each of the agents named above that they may make a market in the notes offered through them. However, neither RBC Capital Markets Corporation nor any of our other affiliates nor any other agent named in your pricing supplement that makes a market is obligated to do so,
and any of them may stop doing so at any time without notice. No assurance can be given as to the
liquidity or trading market for the notes.

This prospectus supplement may be used by RBC Capital Markets Corporation and any other agent
in connection with offers and sales of the notes in market-making transactions. In a market-making
transaction, an agent or other person resells a note it acquires from other holders after the original offering
and sale of the note. Resales of this kind may occur in the open market or may be privately negotiated, at
prevailing market prices at the time of resale or at related or negotiated prices. In these transactions, such
agent may act as principal or agent, including as agent for the counterparty in a transaction in which RBC
Capital Markets Corporation or another agent acts as principal, or as agent for both counterparties in a
transaction in which RBC Capital Markets Corporation does not act as principal. The agents may receive
compensation in the form of discounts and commissions, including from both counterparties in some
cases. Other affiliates of Royal Bank of Canada (in addition to RBC Capital Markets Corporation) may
also engage in transactions of this kind and may use this prospectus supplement for this purpose.

The aggregate initial offering price specified on the cover of this prospectus supplement relates to the
initial offering of new notes we may issue on and after the date of this prospectus supplement. This
amount does not include notes that may be resold in market-making transactions. The latter includes
notes that we may issue going forward as well as notes we have previously issued.

Royal Bank of Canada does not expect to receive any proceeds from market-making transactions.
Royal Bank of Canada does not expect that any agent that engages in these transactions will pay any
proceeds from its market-making resales to Royal Bank of Canada.

Information about the trade and settlement dates, as well as the purchase price, for a market-making
transaction will be provided to the purchaser in a separate confirmation of sale.

Unless Royal Bank of Canada or an agent informs you in your confirmation of sale that your note is
being purchased in its original offering and sale, you may assume that you are purchasing your note in a
market-making transaction.

In this prospectus supplement, the term “this offering” means the initial offering of the notes made in
connection with their original issuance. This term does not refer to any subsequent resales of notes in
market-making transactions.

The agents may engage in over-allotment, stabilizing transactions, syndicate covering transactions
and penalty bids in accordance with Regulation M under the Securities Exchange Act of 1934. Over-
allotment involves syndicate sales in excess of the offering size, which creates a syndicate short position.
Stabilizing transactions permit bids to purchase the underlying security so long as the stabilizing bids do
not exceed a specified maximum. Syndicate covering transactions involve purchases of the notes in the
open market after the distribution has been completed in order to cover syndicate short positions. Penalty
bids permit reclaiming a selling concession from a syndicate member when the notes originally sold by
such syndicate member are purchased in a syndicate covering transaction to cover syndicate short
positions. Such stabilizing transactions, syndicate covering transactions and penalty bids may stabilize,
maintain or otherwise affect the market price of the notes, which may be higher than it would otherwise
be in the absence of such transactions. The agents are not required to engage in these activities, and may
end any of these activities at any time.

In addition to offering notes through the agents as discussed above, other medium-term notes that
have terms substantially similar to the terms of the notes offered by this prospectus supplement may in the
future be offered, concurrently with the offering of the notes, on a continuing basis by Royal Bank of
Canada. Any of these notes sold pursuant to the distribution agreement or sold by Royal Bank of Canada
directly to investors will reduce the aggregate amount of notes which may be offered by this prospectus
supplement.
DOCUMENTS FILED AS PART OF THE REGISTRATION STATEMENT

In addition to the documents specified in the accompanying prospectus under “Documents Incorporated by Reference”, the following documents were filed with the Securities and Exchange Commission and incorporated by reference as part of the registration statement to which this prospectus supplement relates (the “Registration Statement”): (i) the Distribution Agreement, dated January 11, 2010, between us and the agents, (ii) the Calculation Agency Agreement, dated as of January 11, 2010, between us and RBC Capital Markets Corporation, and (iii) the Exchange Rate Agency Agreement, dated as of January 11, 2010, between us and RBC Capital Markets Corporation. Such documents will not be incorporated by reference into this prospectus supplement or the accompanying prospectus. Additional exhibits to the Registration Statement to which this prospectus supplement relates may be subsequently filed in reports on Form 40-F or on Form 6-K that specifically state that such materials are incorporated by reference as exhibits in Part II of the Registration Statement.
ROYAL BANK OF CANADA

Senior Debt Securities

Subordinated Debt Securities

up to an aggregate initial offering price of U.S. $8 billion or the equivalent thereof in other currencies.

This prospectus describes some of the general terms that may apply to these securities and the general manner in which they may be offered. We will give you the specific prices and other terms of the securities we are offering in supplements to this prospectus. You should read this prospectus and the applicable supplement carefully before you invest. We may sell the securities to or through one or more underwriters, dealers or agents. The names of the underwriters, dealers or agents will be set forth in supplements to this prospectus.

NEITHER THE SECURITIES AND EXCHANGE COMMISSION NOR ANY STATE SECURITIES COMMISSION HAS APPROVED OR DISAPPROVED OF THESE SECURITIES OR DETERMINED THAT THIS PROSPECTUS IS TRUTHFUL OR COMPLETE. ANY REPRESENTATION TO THE CONTRARY IS A CRIMINAL OFFENSE.

Prospective investors should be aware that the acquisition of the securities described herein may have tax consequences both in the United States and in Canada. Such consequences for investors who are resident in, or citizens of, the United States may not be described fully herein or in any applicable prospectus supplement.

The enforcement by investors of civil liabilities under United States federal securities laws may be affected adversely by the fact that Royal Bank of Canada is a Canadian bank, that many of its officers and directors are residents of Canada, that some or all of the underwriters or experts named in the Registration Statement may be residents of Canada, and that all or a substantial portion of the assets of Royal Bank of Canada and said persons may be located outside the United States.

The securities described herein will not constitute deposits that are insured under the Canada Deposit Insurance Corporation Act or by the United States Federal Deposit Insurance Corporation.

Investing in the securities described herein involves a number of risks. See “Risk Factors” on page 6.

TM Trademark of Royal Bank of Canada

The date of this prospectus is January 11, 2010.
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In this prospectus, unless the context otherwise indicates, the “Bank”, “we”, “us” or “our” means Royal Bank of Canada and its subsidiaries. All dollar amounts referred to in this prospectus are in Canadian dollars unless otherwise specifically expressed.

DOCUMENTS INCORPORATED BY REFERENCE

The Securities and Exchange Commission (the “SEC”) allows us to “incorporate by reference” the information we file with it, which means we can disclose important information to you by referring you to those documents. Copies of the documents incorporated herein by reference may be obtained upon written or oral request without charge from the Vice-President & Head, Investor Relations, Royal Bank of Canada at 200 Bay Street, North Tower, Toronto, Ontario, Canada M5J 2W7 (telephone: (416) 955-7803). The documents incorporated by reference are available over the Internet at www.sec.gov.

We incorporate by reference our Annual Report on Form 40-F for the fiscal year ended October 31, 2009. In addition, we will incorporate by reference into this prospectus all documents that we file under Section 13(a), 13(c), 14 or 15(d) of the Exchange Act and, to the extent, if any, we designate therein, reports on Form 6-K we furnish to the SEC after the date of this prospectus and prior to the termination of any offering contemplated in this prospectus.

Any statement contained in this prospectus or in a document incorporated or deemed to be incorporated by reference herein shall be deemed to be modified or superseded, for purposes of this prospectus, to the extent that a statement contained herein or in any other subsequently-filed or furnished document that also is or is deemed to be incorporated by reference herein modifies or supersedes such statement. The modifying or superseding statement need not state that it has modified or superseded a prior statement or include any other information set forth in the document that it modifies or supersedes. The making of a modifying or superseding statement shall not be deemed an admission for any purposes that the modified or superseded statement, when made, constituted a misrepresentation, an untrue statement of a material fact or an omission to state a material fact that is required to be stated or that is necessary to make a statement not misleading in light of the circumstances in which it was made. Any statement so modified or superseded shall not be deemed, except as so modified or superseded, to constitute a part of this prospectus.
Upon a new Annual Report and the related annual financial statements being filed by us with, and, where required, accepted by, the SEC, the previous Annual Report shall be deemed no longer to be incorporated by reference into this prospectus for purposes of future offers and sales of securities hereunder.

All documents incorporated by reference, or to be incorporated by reference, have been filed with or furnished to, or will be filed with or furnished to, the SEC.

WHERE YOU CAN FIND MORE INFORMATION

In addition to our continuous disclosure obligations under the securities laws of the Provinces of Canada, we are subject to the information reporting requirements of the United States Securities Exchange Act of 1934, as amended, and in accordance therewith file reports and other information with the SEC. Under the multijurisdictional disclosure system adopted by the United States, such reports and other information may be prepared in accordance with the disclosure requirements of Canada, which requirements are different from those of the United States. Such reports and other information, when filed by us in accordance with such requirements, can be inspected and copied by you at the SEC’s Public Reference Room located at 100 F Street, N.E., Washington, D.C. 20549. The public may obtain information on the operation of the Public Reference Room by calling the SEC at 1-800-SEC-0330. Our SEC filings are also available to the public over the Internet at the SEC’s website at www.sec.gov. Our common shares are listed on the New York Stock Exchange, and reports and other information concerning us can be inspected at the offices of the New York Stock Exchange, 11 Wall Street, New York, New York 10005. Information about us can be located at our website at www.rbc.com. All Internet references in this prospectus are inactive textual references and we do not incorporate website contents into this prospectus.

FURTHER INFORMATION

We have filed with the SEC a Registration Statement on Form F-3 under the United States Securities Act of 1933, as amended, with respect to the securities offered with this prospectus. This prospectus is a part of that Registration Statement, and it does not contain all of the information set forth in the Registration Statement. You can access the Registration Statement together with its exhibits at the SEC’s website at www.sec.gov or inspect these documents at the offices of the SEC in order to obtain more information about us and about the securities offered with this prospectus.
ABOUT THIS PROSPECTUS

This prospectus provides you with a general description of the securities we may offer. Each time we sell securities, we will provide a prospectus supplement containing specific information about the terms of the securities being offered. A prospectus supplement may include a discussion of any risk factors or other special considerations applicable to those securities or to us. A prospectus supplement may also add, update or change information in this prospectus. If there is any inconsistency between the information in this prospectus and the applicable prospectus supplement, you should rely on the information in the prospectus supplement. You should read both this prospectus and any prospectus supplement together with additional information described under the heading “Where You Can Find More Information” on page 3.

We may sell securities to underwriters who will sell the securities to the public on terms fixed at the time of sale. In addition, the securities may be sold by us directly or through dealers or agents designated from time to time. If we, directly or through agents, solicit offers to purchase the securities, we reserve the sole right to accept and, together with any agents, to reject, in whole or in part, any of those offers.

Any prospectus supplement will contain the names of the underwriters, dealers or agents, if any, together with the terms of offering, the compensation of those underwriters and the net proceeds to us. Any underwriters, dealers or agents participating in the offering may be deemed “underwriters” within the meaning of the U.S. Securities Act of 1933.

We publish our consolidated financial statements in Canadian dollars. In this prospectus and any prospectus supplement, currency amounts are stated in Canadian dollars (“$”), unless specified otherwise. As indicated in the table below, the Canadian dollar has fluctuated in value compared to the U.S. dollar over the last five years.

The tables below set forth the high and low daily noon buying rates, the average yearly rate and the rate at period end between Canadian dollars and U.S. dollars (in U.S. dollars per Canadian dollar) for the five-year period ended October 31, 2009 and the high and low daily noon buying rates for November of 2009 and December of 2009. On December 31, 2009, the Canadian dollar noon buying rate was U.S. $0.9559. Our reference to the “noon buying rate” is the rate in The City of New York for cable transfers in foreign currencies as announced by the U.S. Federal Reserve Bank of New York for customs purposes on a specified date.

<table>
<thead>
<tr>
<th>YEAR ENDED OCTOBER 31</th>
<th>HIGH</th>
<th>LOW</th>
<th>AVERAGE RATE</th>
<th>AT PERIOD END</th>
</tr>
</thead>
<tbody>
<tr>
<td>2005 . . . . . . . . . .</td>
<td>0.8615</td>
<td>0.7872</td>
<td>0.8241</td>
<td>0.8477</td>
</tr>
<tr>
<td>2006 . . . . . . . . . .</td>
<td>0.9100</td>
<td>0.8361</td>
<td>0.8827</td>
<td>0.8907</td>
</tr>
<tr>
<td>2007 . . . . . . . . . .</td>
<td>1.0531</td>
<td>0.8437</td>
<td>0.9149</td>
<td>1.0531</td>
</tr>
<tr>
<td>2008 . . . . . . . . . .</td>
<td>1.0908</td>
<td>0.7727</td>
<td>0.9690</td>
<td>0.8225</td>
</tr>
<tr>
<td>2009 . . . . . . . . . .</td>
<td>0.9719</td>
<td>0.7695</td>
<td>0.8569</td>
<td>0.9288</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>MONTH OF 2009</th>
<th>HIGH</th>
<th>LOW</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOVEMBER . . . . .</td>
<td>0.9562</td>
<td>0.9309</td>
</tr>
<tr>
<td>DECEMBER . . . . .</td>
<td>0.9675</td>
<td>0.9364</td>
</tr>
</tbody>
</table>

1 The average of the noon buying rates on the last business day of each full month during the relevant period.
PRESENTATION OF FINANCIAL INFORMATION

We prepare our consolidated financial statements in accordance with Canadian generally accepted accounting principles (“Canadian GAAP”), which differs in certain respects from accounting principles generally accepted in the United States of America (“U.S. GAAP”). For a discussion of significant differences between Canadian GAAP and U.S. GAAP and a reconciliation of the consolidated balance sheet and statement of income, you should read the section titled “Note 31: Reconciliation of the application of Canadian and United States generally accepted accounting principles” in Exhibit 2 to our Annual Report on Form 40-F for the fiscal year ended October 31, 2009.

CAUTION REGARDING FORWARD-LOOKING STATEMENTS

From time to time, we make written or oral forward-looking statements within the meaning of certain securities laws, including the “safe harbor” provisions of the United States Private Securities Litigation Reform Act of 1995 and any applicable Canadian securities legislation. We may make forward-looking statements in this prospectus and the documents incorporated by reference herein, in other filings with Canadian regulators or the SEC, in reports to shareholders and in other communications. Forward-looking statements in this prospectus and documents incorporated by reference herein include, but are not limited to, statements relating to our medium-term objectives, our vision and strategic goals, the 2010 economic and market outlook for the Canadian, U.S. and global economies, the outlook and priorities for each of our business segments, and liquidity and funding management. The forward-looking information contained in this document is presented for the purpose of assisting the holders of our securities and financial analysts in understanding our financial position and results of operations as at and for the periods ended on the dates presented and our vision and strategic goals and medium-term objectives, and may not be appropriate for other purposes. Forward-looking statements are typically identified by words such as “believe”, “expect”, “foresee”, “forecast”, “anticipate”, “intend”, “estimate”, “goal”, “plan” and “project” and similar expressions of future or conditional verbs such as “will”, “may”, “should”, “could” or “would”.

By their very nature, forward-looking statements require us to make assumptions and are subject to inherent risks and uncertainties, which give rise to the possibility that our predictions, forecasts, projections, expectations or conclusions will not prove to be accurate, that our assumptions may not be correct and that our medium-term objectives, vision and strategic goals will not be achieved. We caution readers not to place undue reliance on these statements as a number risk factors could cause our actual results to differ materially from the expectations expressed in such forward-looking statements. These factors – many of which are beyond our control and the effects of which can be difficult to predict – include: credit, market, operational and liquidity and funding risks, and other risks discussed in the Risk, capital and liquidity management and Overview of other risks section of the management’s discussion and analysis included in our Annual Report on Form 40-F for the fiscal year ended October 31, 2009, which is incorporated by reference in this prospectus; general business, economic and financial market conditions, including the ongoing impact from the market environment, the lack of liquidity in certain markets, the level of activity and volatility of the capital markets and recessionary conditions in Canada, the United States and certain other countries in which we conduct business; changes in accounting standards, policies and estimates, including changes in our estimates of provisions, allowances and valuations; the effects of changes in government fiscal, monetary and other policies; the effects of competition in the markets in which we operate; the impact of changes in laws and regulations, including tax laws; judicial or regulatory judgments and legal proceedings; the accuracy and completeness of information concerning our clients and counterparties; our ability to successfully execute our strategies and to complete and integrate strategic acquisitions and joint ventures successfully; and development and integration of our distribution networks.

We caution that the foregoing list of risk factors is not exhaustive and other factors could also adversely affect our results. When relying on our forward-looking statements to make decisions with respect to us, investors and others should carefully consider the foregoing factors and other uncertainties and potential events. Except as required by law, we do not undertake to update any forward-looking statement, whether written or oral, that may be made from time to time by us or on our behalf.

Additional information about these and other factors can be found in the “Risk, capital and liquidity management” and “Overview of other risks” sections in the management’s discussion and analysis of financial
condition and results of operations included in our Annual Report on Form 40-F for the fiscal year ended October 31, 2009, which is incorporated by reference in this prospectus.

ROYAL BANK OF CANADA

Business

The Bank and its subsidiaries operate under the master brand name RBC. We are Canada’s largest bank as measured by assets and market capitalization, and among the largest banks in the world, based on market capitalization. We are one of North America’s leading diversified financial services companies, and provide personal and commercial banking, wealth management services, insurance, corporate and investment banking and transaction processing services on a global basis. We employ approximately 80,000 full- and part-time employees who serve more than 18 million personal, business, public sector and institutional clients through offices in Canada, the U.S. and 53 other countries.

Our segments are Canadian Banking, Wealth Management, Insurance, International Banking, Capital Markets and Corporate Support. Additional information about our business and each segment (including segment results) can be found under “Overview” on page 6 and under “Business segment results” beginning on page 16 of the management’s discussion and analysis of financial condition and results of operations included in our Annual Report on Form 40-F for the fiscal year ended October 31, 2009, which is incorporated by reference in this prospectus.

We are a Schedule I Bank under the Bank Act (Canada), which constitutes our charter. Our corporate headquarters are located at Royal Bank Plaza, 200 Bay Street, Toronto, Ontario, Canada M5J 2J5 and our head office is located at 1 Place Ville Marie, Montréal, Québec, Canada H3C 3A9.

RISK FACTORS

Investment in these securities is subject to various risks including those risks inherent in conducting the business of a diversified financial institution. Before deciding whether to invest in any debt securities, you should consider carefully the risks described in the documents incorporated by reference in this prospectus (including subsequently filed documents incorporated by reference) and, if applicable, those described in a prospectus supplement relating to a specific offering of securities. You should consider the categories of risks identified and discussed in the management’s discussion and analysis of financial condition and results of operations included in our Annual Report on Form 40-F for the fiscal year ended October 31, 2009, including those summarized under “Caution Regarding Forward-Looking Information” on page 5.

USE OF PROCEEDS

Except as otherwise set forth in a prospectus supplement, the net proceeds from the sale of securities will be added to our general funds and will be used for general banking purposes. In addition, except as otherwise set forth in a prospectus supplement, the purpose of the sale of the subordinated debt securities will be to enlarge our capital base.
CONSOLIDATED RATIOS OF EARNINGS TO FIXED CHARGES

The tables below set forth our consolidated ratios of earnings to fixed charges, calculated in accordance with Canadian GAAP and U.S. GAAP, for the five-year period ended October 31, 2009:

<table>
<thead>
<tr>
<th></th>
<th>Year Ended October 31,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excluding Interest on Deposits</td>
<td>3.28</td>
</tr>
<tr>
<td>Including Interest on Deposits</td>
<td>1.60</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>Year Ended October 31,</th>
</tr>
</thead>
<tbody>
<tr>
<td>Excluding Interest on Deposits</td>
<td>3.29</td>
</tr>
<tr>
<td>Including Interest on Deposits</td>
<td>1.59</td>
</tr>
</tbody>
</table>

For purposes of computing these ratios, earnings represent net income plus income taxes and fixed charges (excluding capitalized interest). Fixed charges represent (i) estimated interest within rental expense, (ii) amortization of debt issuance costs and (iii) interest (including capitalized interest), including or excluding deposit interest as indicated.
CONSOLIDATED CAPITALIZATION AND INDEBTEDNESS

The following table sets forth our consolidated capitalization at October 31, 2009. This table should be read in conjunction with our annual audited consolidated financial statements and the management’s discussion and analysis of financial condition and results of operations included in our Annual Report on Form 40-F for the fiscal year ended October 31, 2009, which is incorporated by reference in this prospectus.

As at October 31, 2009

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>(in millions of Canadian dollars)</td>
</tr>
<tr>
<td>Subordinated debentures</td>
<td>$6,461</td>
</tr>
<tr>
<td>Trust capital securities (1)</td>
<td>1,395</td>
</tr>
<tr>
<td>RBC Trust capital securities included in non-controlling interest in subsidiaries (1)</td>
<td>1,725</td>
</tr>
<tr>
<td><strong>Shareholders’ Equity</strong></td>
<td></td>
</tr>
<tr>
<td>Preferred shares</td>
<td>4,813</td>
</tr>
<tr>
<td>Common shares</td>
<td>13,075</td>
</tr>
<tr>
<td>Contributed surplus</td>
<td>246</td>
</tr>
<tr>
<td>Retained earnings</td>
<td>20,585</td>
</tr>
<tr>
<td>Treasury shares – preferred</td>
<td>(2)</td>
</tr>
<tr>
<td>Treasury shares – common</td>
<td>(95)</td>
</tr>
<tr>
<td>Accumulated other comprehensive income (loss)</td>
<td>(1,716)</td>
</tr>
<tr>
<td><strong>Total Shareholders’ Equity</strong></td>
<td>36,906</td>
</tr>
<tr>
<td><strong>Total Capitalization</strong></td>
<td>46,487</td>
</tr>
</tbody>
</table>

(1) For more information on the classification of trust capital securities refer to our Note 17 of our audited consolidated financial statements for the year ended October 31, 2009
DESCRIPTION OF DEBT SECURITIES

We may issue senior or subordinated debt securities. Neither the senior debt securities nor the subordinated debt securities will be secured by any of our property or assets or the property or assets of our subsidiaries. Thus, by owning a debt security, you are one of our unsecured creditors.

The senior debt securities will be issued under our senior debt indenture, as supplemented by the first supplemental indenture (collectively, the “senior debt indenture”), described below and will be unsubordinated obligations that rank equally with all of our other unsecured and unsubordinated debt, including deposit liabilities, other than certain governmental claims in accordance with applicable law.

The subordinated debt securities will be issued under our subordinated debt indenture described below and will be subordinate in right of payment to all of our “senior indebtedness”, as defined in the subordinated debt indenture. Neither indenture limits our ability to incur additional indebtedness.

In the event we become insolvent, our governing legislation provides that priorities among payments of our deposit liabilities (including payments in respect of the senior debt securities) and payments of all of our other liabilities (including payments in respect of the subordinated debt securities) are to be determined in accordance with the laws governing priorities and, where applicable, by the terms of the indebtedness and liabilities. Because we have subsidiaries, our right to participate in any distribution of the assets of our banking or non-banking subsidiaries, upon a subsidiary’s dissolution, winding-up, liquidation or reorganization or otherwise, and thus your ability to benefit indirectly from such distribution, is subject to the prior claims of creditors of that subsidiary, except to the extent that we may be a creditor of that subsidiary and our claims are recognized. There are legal limitations on the extent to which some of our subsidiaries may extend credit, pay dividends or otherwise supply funds to, or engage in transactions with, us or some of our other subsidiaries. Accordingly, the debt securities will be structurally subordinated to all existing and future liabilities of our subsidiaries, and holders of debt securities should look only to our assets for payments on the debt securities.

Neither the senior debt securities nor the subordinated debt securities will 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 governmental agency or instrumentality.

When we refer to “debt securities” or “securities” in this prospectus, we mean both the senior debt securities and the subordinated debt securities.

The Senior and Subordinated Debt Indentures

The senior debt securities and the subordinated debt securities are each governed by an indenture — the senior debt indenture, in the case of the senior debt securities, and the subordinated debt indenture, in the case of the subordinated debt securities. When we refer to the “indentures”, we mean both the senior debt indenture and the subordinated debt indenture, and when we refer to the “indenture”, we mean either the senior debt indenture or the subordinated debt indenture. Each indenture is a contract between us and The Bank of New York Mellon, as successor to the corporate trust business of JPMorgan Chase Bank, N.A., which acts as trustee. The indentures are substantially identical, except for the provisions relating to the events of default, which are more limited in the subordinated debt indenture, to subordination, which are included only in the subordinated debt indenture, and the provisions relating to possible conversions or exchanges, which are only included in the senior debt indenture.

Reference to the indenture or the trustee, with respect to any debt securities, means the indenture under which those debt securities are issued and the trustee under that indenture.

The trustee has two main roles:

- The trustee can enforce the rights of holders against us if we default on our obligations under the terms of the indenture or the debt securities. There are some limitations on the extent to which the trustee
acts on behalf of holders, described below under “— Events of Default — Remedies If an Event of Default Occurs”.

- The trustee performs administrative duties for us, such as sending interest payments and notices to holders and transferring a holder’s debt securities to a new buyer if a holder sells.

The indentures and their associated documents contain the full legal text of the matters described in this section. The indentures and the debt securities will be governed by New York law, except that the subordination provisions in the subordinated debt indenture and certain provisions relating to the status of the senior debt securities under Canadian law in the senior debt indenture will be governed by the laws of the Province of Ontario and the laws of Canada applicable therein. A copy of each of the senior debt indenture, the supplements to the senior debt indenture and the form of subordinated debt indenture is an exhibit to our Registration Statement. See “Where You Can Find More Information” above for information on how to obtain a copy.

General

We may issue as many distinct series of debt securities under either indenture as we wish. The provisions of the senior debt indenture and the subordinated debt indenture allow us not only to issue debt securities with terms different from those previously issued under the applicable indenture, but also to “re-open” a previous issue of a series of debt securities and issue additional debt securities of that series. We may issue debt securities in amounts that exceed the total amount specified on the cover of your prospectus supplement at any time without your consent and without notifying you.

This section summarizes the material terms of the debt securities that are common to all series, although the prospectus supplement that describes the terms of each series of debt securities may also describe differences from the material terms summarized here.

Because this section is a summary, it does not describe every aspect of the debt securities. This summary is subject to and qualified in its entirety by reference to all the provisions of the indentures, including definitions of certain terms used in the indentures. In this summary, we describe the meaning of only some of the more important terms. For your convenience, we also include references in parentheses to certain sections of the indentures. Whenever we refer to particular sections or defined terms of the indentures in this prospectus or in the prospectus supplement, such sections or defined terms are incorporated by reference here or in the prospectus supplement. You must look to the indentures for the most complete description of what we describe in summary form in this prospectus.

This summary is also subject to and qualified by reference to the description of the particular terms of your series described in the prospectus supplement. Those terms may vary from the terms described in this prospectus. The prospectus supplement relating to each series of debt securities will be attached to the front of this prospectus. There may also be a further prospectus supplement, known as a pricing supplement, which describes additional terms of debt securities you are offered.

We may issue the debt securities as original issue discount securities, which will be offered and sold at a substantial discount below their stated principal amount. (Section 101) The prospectus supplement relating to the original issue discount securities will describe U.S. federal income tax consequences and other special considerations applicable to them. The debt securities may also be issued as indexed securities or securities denominated in foreign currencies or currency units, as described in more detail in the prospectus supplement relating to any of the particular debt securities. The prospectus supplement relating to specific debt securities will also describe any special considerations and any material additional tax considerations applicable to such debt securities.

In addition, the specific financial, legal and other terms particular to a series of debt securities will be described in the prospectus supplement and, if applicable, a pricing supplement relating to the series. The prospectus supplement relating to a series of debt securities will describe the following terms of the series:
• the title of the series of debt securities;

• whether it is a series of senior debt securities or a series of subordinated debt securities;

• any limit on the aggregate principal amount of the series of debt securities;

• the person to whom interest on a debt security is payable, if other than the holder on the regular record date;

• the date or dates on which the series of debt securities will mature;

• the rate or rates, which may be fixed or variable per annum, at which the series of debt securities will bear interest, if any, and the date or dates from which that interest, if any, will accrue;

• the place or places where the principal of, premium, if any, and interest on the debt securities is payable;

• the terms, if any, on which any securities may or shall be converted into or exchanged at the option of the Bank or otherwise for shares or other securities of the Bank or another entity or other entities, into the cash value thereof or into any combination of the foregoing, any specific terms relating to the adjustment thereof and the period during which such securities may or shall be so converted or exchanged;

• the dates on which interest, if any, on the series of debt securities will be payable and the regular record dates for the interest payment dates;

• any mandatory or optional sinking funds or similar provisions or provisions for redemption at our option or the option of the holder;

• the date, if any, after which, and the price or prices at which, the series of debt securities may, in accordance with any optional or mandatory redemption provisions, be redeemed and the other detailed terms and provisions of those optional or mandatory redemption provisions, if any;

• if other than denominations of $1,000 and any integral multiples thereof, the denominations in which the series of debt securities will be issuable;

• the currency of payment of principal, premium, if any, and interest on the series of debt securities;

• if the currency of payment for principal, premium, if any, and interest on the series of debt securities is subject to our election or that of a holder, the currency or currencies in which payment can be made and the period within which, and the terms and conditions upon which, the election can be made;

• any index, formula or other method used to determine the amount of payment of principal or premium, if any, and interest on the series of debt securities;

• the applicability of the provisions described under “— Defeasance” below;

• any event of default under the series of debt securities if different from those described under “— Events of Default” below;

• if the debt securities will be issued in bearer form, any special provisions relating to bearer securities;

• if the series of debt securities will be issuable only in the form of a global security, the depositary or its nominee with respect to the series of debt securities and the circumstances under which the global
security may be registered for transfer or exchange in the name of a person other than the depositary or the nominee; and

- any other special feature of the series of debt securities.

Overview of Remainder of This Description

The remainder of this description summarizes:

- additional mechanics relevant to the debt securities under normal circumstances, such as how holders record the transfer of ownership and where we make payments;

- holders’ rights in several special situations, such as if we merge with another company or if we want to change a term of the debt securities;

- subordination provisions in the subordinated debt indenture that may prohibit us from making payment on those securities;

- our right to release ourselves from all or some of our obligations under the debt securities and the indenture by a process called defeasance; and

- holders’ rights if we default or experience other financial difficulties.

Form, Exchange and Transfer

Unless we specify otherwise in the prospectus supplement, the debt securities will be issued:

- only in fully-registered form;

- without interest coupons; and

- in denominations that are even multiples of $1,000. (Section 302)

If a debt security is issued as a registered global debt security, only the depositary — e.g., DTC, Euroclear and Clearstream, each as defined below under “Ownership and Book-Entry Issuance” — will be entitled to transfer and exchange the debt security as described in this subsection because the depositary will be the sole registered holder of the debt security and is referred to below as the “holder”. Those who own beneficial interests in a global security do so through participants in the depositary’s securities clearance system, and the rights of these indirect owners will be governed by the applicable procedures of the depositary and its participants. We describe book-entry procedures below under “Ownership and Book-Entry Issuance”.

Holders of securities issued in fully-registered form may have their debt securities broken into more debt securities of smaller denominations of not less than $1,000, or combined into fewer debt securities of larger denominations, as long as the total principal amount is not changed. (Section 305) This is called an exchange.

Holders may exchange or register the transfer of debt securities at the office of the trustee. Debt securities may be transferred by endorsement. Holders may also replace lost, stolen or mutilated debt securities at that office. The trustee acts as our agent for registering debt securities in the names of holders and registering the transfer of debt securities. We may change this appointment to another entity or perform it ourselves. The entity performing the role of maintaining the list of registered holders is called the security registrar. It will also record transfers. (Section 305) The trustee may require an indemnity before replacing any debt securities.

Holders will not be required to pay a service charge to register the transfer or exchange of debt securities, but holders may be required to pay for any tax or other governmental charge associated with the exchange or
transfer. The registration of a transfer or exchange will only be made if the security registrar is satisfied with your proof of ownership.

If we designate additional transfer agents, they will be named in the prospectus supplement. We may cancel the designation of any particular transfer agent. We may also approve a change in the office through which any transfer agent acts. (Section 1002)

If the debt securities are redeemable and we redeem less than all of the debt securities of a particular series, we may block the registration of transfer or exchange of debt securities during the period beginning 15 days before the day we mail the notice of redemption and ending on the day of that mailing, in order to freeze the list of holders entitled to receive the mailing. We may also refuse to register transfers or exchanges of debt securities selected for redemption, except that we will continue to permit registration of transfers and exchanges of the unredeemed portion of any debt security being partially redeemed. (Section 305)

**Payment and Paying Agents**

We will pay interest to the person listed in the trustee’s records at the close of business on a particular day in advance of each due date for interest, even if that person no longer owns the debt security on the interest due date. That particular day, usually about two weeks in advance of the interest due date, is called the regular record date and will be stated in the prospectus supplement. (Section 307) Holders buying and selling debt securities must work out between them how to compensate for the fact that we will pay all the interest for an interest period to the one who is the registered holder on the regular record date. The most common manner is to adjust the sale price of the securities to prorate interest fairly between buyer and seller. This prorated interest amount is called accrued interest.

We will pay interest, principal and any other money due on the debt securities at the corporate trust office of the trustee in the City of New York. That office is currently located at 101 Barclay Street - Floor 4E, New York, NY 10286. Holders must make arrangements to have their payments picked up at or wired from that office. We may also choose to pay interest by mailing checks.

Book-entry and other indirect holders should consult their banks, brokers or other financial institutions for information on how they will receive payments.

We may also arrange for additional payment offices and may cancel or change these offices, including our use of the trustee’s corporate trust office. These offices are called paying agents. We may also choose to act as our own paying agent or choose one of our subsidiaries to do so. We must notify holders of changes in the paying agents for any particular series of debt securities. (Section 1002)

**Conversion or Exchange of Senior Debt Securities**

If and to the extent mentioned in the relevant prospectus supplement, any senior debt securities series may be optionally or mandatorily convertible or exchangeable for stock or other securities of the Bank or another entity or entities, into the cash value therefor or into any combination of the above. The specific terms on which any senior debt securities series may be so converted or exchanged will be described in the relevant prospectus supplement. These terms may include provisions for conversion or exchange, either mandatory, at the holder’s option or at our option, in which case the amount or number of securities the senior debt securities holders would receive would be calculated at the time and manner described in the relevant prospectus supplement. (Section 301)

**Notices**

We and the trustee will send notices regarding the debt securities only to registered holders, using their addresses as listed in the trustee’s records. (Sections 101 and 106) With respect to who is a registered “holder” for this purpose, see “Ownership and Book-Entry Issuance”.
Regardless of who acts as paying agent, all money paid by us to a paying agent that remains unclaimed at the end of two years after the amount is due to holders will be repaid to us. After that two-year period, holders may look to us for payment and not to the trustee or any other paying agent. (Section 1003)

**Mergers and Similar Events**

Under the indentures, we are generally permitted to consolidate or merge with another entity. We are also permitted to sell or lease substantially all of our assets to another entity, or to buy or lease substantially all of the assets of another entity. However, we may not take any of these actions unless all the following conditions are met:

- When we merge, amalgamate, consolidate or otherwise are combined with, or acquired by, another entity or sell or lease substantially all of our assets, the surviving, resulting or acquiring entity must be a properly organized entity and must be legally responsible for the debt securities, whether by agreement, operation of law or otherwise.

- The merger, amalgamation, consolidation, other combination, sale or lease of assets must not cause a default on the debt securities. A default for this purpose would include any event that would be an event of default if the requirements for giving us default notice or our default having to exist for a specific period of time were disregarded.

If the conditions described above are satisfied with respect to any series of debt securities, we will not need to obtain the approval of the holders of those debt securities in order to merge or consolidate or to sell our assets. Also, these conditions will apply only if we wish to merge or consolidate with another entity or sell substantially all of our assets to another entity. We will not need to satisfy these conditions if we enter into other types of transactions, including any transaction in which we acquire the stock or assets of another entity, any transaction that involves a change of control but in which we do not merge or consolidate and any transaction in which we sell less than substantially all of our assets. It is possible that this type of transaction may result in a reduction in our credit rating, may reduce our operating results or may impair our financial condition. Holders of our debt securities, however, will have no approval right with respect to any transaction of this type.

**Modification and Waiver of the Debt Securities**

There are four types of changes we can make to either indenture and the debt securities issued under that indenture.

*Changes Requiring Approval of All Holders*. First, there are changes that cannot be made to the indenture or the debt securities without specific approval of each holder of a debt security affected in any material respect by the change under a particular debt indenture. Following is a list of those types of changes:

- change the stated maturity of the principal or reduce the interest on a debt security;

- reduce any amounts due on a debt security;

- reduce the amount of principal payable upon acceleration of the maturity of a debt security (including the amount payable on an original issue discount security) following a default;

- change the currency of payment on a debt security;

- change the place of payment for a debt security;

- impair a holder’s right to sue for payment;

- impair the holder’s right to require repurchase on the original terms of those debt securities that provide a right of repurchase;
• reduce the percentage of holders of debt securities whose consent is needed to modify or amend the indenture;

• reduce the percentage of holders of debt securities whose consent is needed to waive compliance with certain provisions of the indenture or to waive certain defaults; or

• modify any other aspect of the provisions dealing with modification and waiver of the indenture.
(Section 902)

Changes Requiring a Majority Vote. The second type of change to the indenture and the debt securities is the kind that requires a vote in favor by holders of debt securities owning not less than a majority of the principal amount of the particular series affected. Most changes fall into this category, except for clarifying changes and certain other changes that would not adversely affect in any material respect holders of the debt securities. (Section 901) We may also obtain a waiver of a past default from the holders of debt securities owning a majority of the principal amount of the particular series affected. However, we cannot obtain a waiver of a payment default or any other aspect of the indenture or the debt securities listed in the first category described above under “— Changes Requiring Approval of All Holders” unless we obtain the individual consent of each holder to the waiver. (Section 513)

Changes Not Requiring Approval. The third type of change to the indenture and the debt securities does not require any vote by holders of debt securities. This type is limited to clarifications and certain other changes that would not adversely affect in any material respect holders of the debt securities. (Section 901)

We may also make changes or obtain waivers that do not adversely affect in any material respect a particular debt security, even if they affect other debt securities. In those cases, we do not need to obtain the approval of the holder of that debt security; we need only obtain any required approvals from the holders of the affected debt securities.

Modification of Subordination Provisions. We may not modify the subordination provisions of the subordinated debt indenture in a manner that would adversely affect in any material respect the outstanding subordinated debt securities of any one or more series without the consent of the holders of a majority of the principal amount of all affected series, voting together as one class.

Further Details Concerning Voting. When taking a vote, we will use the following rules to decide how much principal amount to attribute to a debt security:

• For original issue discount securities, we will use the principal amount that would be due and payable on the voting date if the maturity of the debt securities were accelerated to that date because of a default.

• For debt securities whose principal amount is not known (for example, because it is based on an index), we will use a special rule for that debt security described in the prospectus supplement.

• For debt securities denominated in one or more non-U.S. currencies or currency units, we will use the U.S. dollar equivalent.

Debt securities will not be considered outstanding, and therefore not eligible to vote, if we have given a notice of redemption and deposited or set aside in trust for the holders money for the payment or redemption of the debt securities. Debt securities will also not be eligible to vote if they have been fully defeased as described below under “— Defeasance — Full Defeasance”. (Section 1402)

We will generally be entitled to set any day as a record date for the purpose of determining the holders of outstanding debt securities that are entitled to vote or take other action under the indenture. In certain limited circumstances, the trustee will be entitled to set a record date for action by holders. If the trustee or we set a record date for a vote or other action to be taken by holders of a particular series, that vote or action may be taken only by
persons who are holders of outstanding securities of that series on the record date. We or the trustee, as applicable, may shorten or lengthen this period from time to time. This period, however, may not extend beyond the 180th day after the record date for the action. (Sections 104 and 512)

Book-entry and other indirect holders should consult their banks, brokers or other financial institutions for information on how approval may be granted or denied if we seek to change the indenture or the debt securities or request a waiver.

Special Provisions Related to the Subordinated Debt Securities

The subordinated debt securities issued under the subordinated debt indenture will be our direct unsecured obligations constituting subordinated indebtedness for the purpose of the Bank Act (Canada) and will therefore rank subordinate to our deposits. Holders of subordinated debt securities should recognize that contractual provisions in the subordinated debt indenture may prohibit us from making payments on these securities.

If we become insolvent or are wound-up, the subordinated debt securities will rank equally and ratably with, but not prior to, all other subordinated debt and subordinate in right of payment to the prior payment in full of (i) our indebtedness then outstanding, other than subordinated indebtedness and (ii) all indebtedness to which our other subordinated indebtedness is subordinate in right of payment to the same extent as such other subordinated indebtedness. As of October 31, 2009, we had $608 billion of senior indebtedness, including deposits, outstanding, which would rank ahead of the subordinated debt securities. The only outstanding subordinated indebtedness issued to date has been issued pursuant to our indentures with Computershare Trust Company of Canada dated October 1, 1984, June 6, 1986, November 14, 1994, May 21, 1997 and June 18, 2004, as supplemented from time to time.

For these purposes, “indebtedness” at any time means:

(i) the deposit liabilities of the Bank at such time; and

(ii) all other liabilities and obligations of the Bank to third parties (other than fines or penalties which pursuant to the Bank Act (Canada) are a last charge on the assets of a bank in the case of insolvency of such bank and obligations to shareholders of the Bank, as such) which would entitle such third parties to participate in a distribution of the Bank’s assets in the event of the insolvency or winding-up of the Bank.

“subordinated indebtedness” at any time means:

(i) the liability of the Bank in respect of the principal of and premium, if any, and interest on its outstanding subordinated indebtedness outlined above;

(ii) any indebtedness which ranks equally with and not prior to the outstanding subordinated indebtedness, in right of payment in the event of the insolvency or winding-up of the Bank and which, pursuant to the terms of the instrument evidencing or creating the same, is expressed to be subordinate in right of payment to all indebtedness to which the outstanding subordinated indebtedness is subordinate in right of payment to at least the same extent as the outstanding subordinated indebtedness is subordinate thereto pursuant to the terms of the instrument evidencing or creating the same;

(iii) any indebtedness which ranks subordinate to and not equally with or prior to the outstanding subordinated indebtedness, in right of payment in the event of the insolvency or winding-up of the Bank and which, pursuant to the terms of the instrument evidencing or creating the same, is expressed to be subordinate in right of payment to all indebtedness to which the outstanding subordinated indebtedness is subordinate in right of payment to at least the same extent as the outstanding subordinated indebtedness is subordinate pursuant to the terms of the instrument evidencing or creating the same; and
(iv) the subordinated debt securities, which will rank equally to the Bank’s outstanding subordinated indebtedness.

The subordination provisions of the subordinated debt indenture are governed by the laws of the Province of Ontario and the federal laws of Canada applicable therein.

Defeasance

The following discussion of full defeasance and covenant defeasance will be applicable to each series of debt securities that is denominated in U.S. dollars and has a fixed rate of interest and will apply to other series of debt securities if we so specify in the prospectus supplement. (Section 1401)

Full Defeasance. If there is a change in U.S. federal tax law, as described below, we can legally release ourselves from any payment or other obligations on the debt securities, called full defeasance, if we put in place the following other arrangements for holders to be repaid:

- We must deposit in trust for the benefit of all holders of the debt securities a combination of money and notes or bonds of the U.S. government or a U.S. government agency or U.S. government-sponsored entity (the obligations of which are backed by the full faith and credit of the U.S. government) that will generate enough cash to make interest, principal and any other payments on the debt securities on their various due dates.

- There must be a change in current U.S. federal tax law or an Internal Revenue Service (“IRS”) ruling that lets us make the above deposit without causing the holders to be taxed on the debt securities any differently than if we did not make the deposit and just repaid the debt securities ourselves. (Under current federal tax law, the deposit and our legal release from the obligations pursuant to the debt securities would be treated as though we took back your debt securities and gave you your share of the cash and notes or bonds deposited in trust. In that event, you could recognize gain or loss on the debt securities you give back to us.)

- We must deliver to the trustee a legal opinion of our counsel confirming the tax-law change described above and that the holders of the debt securities will not recognize income, gain or loss for federal income tax purposes as a result of such deposit, defeasance and discharge and will be subject to federal income tax on the same amounts and in the same manner and at the same times as would be the case if such deposit, defeasance and discharge had not occurred. (Sections 1402 and 1404)

- In the case of the subordinated debt securities, the following requirement must also be met:
  - No event or condition may exist that, under the provisions described under “— Subordination Provisions” above, would prevent us from making payments of principal, premium or interest on those subordinated debt securities on the date of the deposit referred to above or during the 90 days after that date.

If we ever did accomplish full defeasance, as described above, you would have to rely solely on the trust deposit for repayment on the debt securities. You could not look to us for repayment in the unlikely event of any shortfall.

Covenant Defeasance. Even without a change in current U.S. federal tax law, we can make the same type of deposit as described above, and we will be released from the restrictive covenants under the debt securities that may be described in the prospectus supplement. This is called covenant defeasance. In that event, you would lose the protection of these covenants but would gain the protection of having money and U.S. government or U.S. government agency notes or bonds set aside in trust to repay the debt securities. In order to achieve covenant defeasance, we must do the following:
- We must deposit in trust for the benefit of all holders of the debt securities a combination of money and notes or bonds of the U.S. government or a U.S. government agency or U.S. government sponsored entity (the obligations of which are backed by the full faith and credit of the U.S. government) that will generate enough cash to make interest, principal and any other payments on the debt securities on their various due dates.

- We must deliver to the trustee a legal opinion of our counsel confirming that the holders of the debt securities will not recognize income, gain or loss for federal income tax purposes as a result of such deposit and covenant defeasance and will be subject to federal income tax on the same amounts and in the same manner and at the same times as would be the case if such deposit and covenant defeasance had not occurred.

If we accomplish covenant defeasance, certain provisions of the indenture and the debt securities would no longer apply:

- Covenants applicable to the series of debt securities and described in the prospectus supplement.
- Any events of default relating to breach of those covenants.

If we accomplish covenant defeasance, you can still look to us for repayment of the debt securities if there were a shortfall in the trust deposit. In fact, if one of the remaining events of default occurs (such as a bankruptcy) and the debt securities become immediately due and payable, there may be such a shortfall. (Sections 1403 and 1404)

Events of Default

You will have special rights if an event of default occurs and is not cured, as described later in this subsection.

What is an Event of Default?

Under the senior debt indenture, the term “Event of Default” means any of the following:

- We do not pay the principal of or any premium on a debt security.
- We do not pay interest on a debt security within 30 days of its due date.
- We file for bankruptcy or certain other events of bankruptcy, insolvency or reorganization occur.
- Any other event of default described in the prospectus supplement occurs. (Section 501)

Under the subordinated debt indenture, the term “Event of Default” means any of the following:

- We file for bankruptcy or certain other events of bankruptcy, insolvency or reorganization occur.
- Any other event of default described in the prospectus supplement occurs. (Section 501)

Remedies If an Event of Default Occurs. If an Event of Default occurs, the trustee will have special duties. In that situation, the trustee will be obligated to use those of its rights and powers under the indenture, and to use the same degree of care and skill in doing so, that a prudent person would use in that situation in conducting his or her own affairs. If an Event of Default has occurred and has not been cured, the trustee or the holders of at least 25% in principal amount of the debt securities of the affected series may declare the entire principal amount (or, in the case of original issue discount securities, the portion of the principal amount that is specified in the terms of the affected debt security) of all the debt securities of that series to be due and immediately payable. This is called a declaration
of acceleration of maturity. However, a declaration of acceleration of maturity may be cancelled, but only before a judgment or decree based on the acceleration has been obtained, by the holders of at least a majority in principal amount of the debt securities of the affected series. If you are the holder of a subordinated debt security, the principal amount of the subordinated debt security will not be paid and may not be required to be paid at any time prior to the relevant maturity date, except in the event of our insolvency or winding-up. (Section 502)

You should read carefully the prospectus supplement relating to any series of debt securities which are original issue discount securities for the particular provisions relating to acceleration of the maturity of a portion of the principal amount of original issue discount securities upon the occurrence of an event of default and its continuation.

Except in cases of default in which the trustee has the special duties described above, the trustee is not required to take any action under the indenture at the request of any holders unless the holders offer the trustee reasonable protection from expenses and liability called an indemnity. (Section 603) If reasonable indemnity is provided, the holders of a majority in principal amount of the outstanding securities of the relevant series may direct the time, method and place of conducting any lawsuit or other formal legal action seeking any remedy available to the trustee. These majority holders may also direct the trustee in performing any other action under the applicable indenture with respect to the debt securities of that series. (Section 512)

Before you bypass the trustee and bring your own lawsuit or other formal legal action or take other steps to enforce your rights or protect your interests relating to the debt securities the following must occur:

- the holder of the debt security must give the trustee written notice that an event of default has occurred and remains uncured;
- the holders of 25% in principal amount of all outstanding securities of the relevant series must make a written request that the trustee take action because of the default, and must offer reasonable indemnity to the trustee against the cost and other liabilities of taking that action; and
- the trustee must have not taken action for 90 days after receipt of the above notice and offer of indemnity. (Section 507)

However, you are entitled at any time to bring a lawsuit for the payment of money due on your debt security on or after its due date. (Section 508)

Book-entry and other indirect holders should consult their banks, brokers or other financial institutions for information on how to give notice or direction to or make a request of the trustee and to make or cancel a declaration of acceleration.

We will give to the trustee every year a written statement of certain of our officers certifying that to their knowledge we are in compliance with the applicable indenture and the debt securities issued under it, or else specifying any default. (Section 1004)

Ownership and Book-Entry Issuance

In this section, we describe special considerations that will apply to registered securities issued in global i.e., book-entry, form. First we describe the difference between registered ownership and indirect ownership of registered securities. Then we describe special provisions that apply to global securities.

Who is the Registered Owner of a Security?

Each debt security will be represented either by a certificate issued in definitive form to a particular investor or by one or more global securities representing securities. We refer to those who have securities registered in their own names, on the books that we or the trustee maintain for this purpose, as the “registered holders” of those securities. Subject to limited exceptions, we and the trustee are entitled to treat the registered holder of a security as
the person exclusively entitled to vote, to receive notices, to receive any interest or other payment in respect of the security and to exercise all the rights and power as an owner of the security. We refer to those who own beneficial interests in securities that are not registered in their own names as indirect owners of those securities. As we discuss below, indirect owners are not registered holders, and investors in securities issued in book-entry form or in street name will be indirect owners.

**Book-Entry Owners.** Unless otherwise noted in your prospectus supplement, we will issue each security in book-entry form only. This means securities will be represented by one or more global securities registered in the name of a financial institution that holds them as depositary on behalf of other financial institutions that participate in the depositary’s book-entry system. These participating institutions, in turn, hold beneficial interests in the securities on behalf of themselves or their customers.

Under each indenture (and the Bank Act (Canada) in the case of subordinated indebtedness), subject to limited exceptions, only the person in whose name a security is registered is recognized as the holder of that security. Consequently, for securities issued in global form, we will recognize only the depositary as the holder of the securities and we will make all payments on the securities, including deliveries of any property other than cash, to the depositary. The depositary passes along the payments it receives to its participants, which in turn pass the payments along to their customers who are the beneficial owners. The depositary and its participants do so under agreements they have made with one another or with their customers; they are not obligated to do so under the terms of the securities.

As a result, investors will not own securities directly. Instead, they will own beneficial interests in a global security, through a bank, broker or other financial institution that participates in the depositary’s book-entry system or holds an interest through a participant. As long as the securities are issued in global form, investors will be indirect owners, and not registered holders, of the securities.

**Street Name Owners.** We may terminate an existing global security or issue securities initially in non-global form. In these cases, investors may choose to hold their securities in their own names or in street name. Securities held by an investor in street name would be registered in the name of a bank, broker or other financial institution that the investor chooses, and the investor would hold only a beneficial interest in those securities through an account he or she maintains at that institution.

For securities held in street name, we will, subject to limited exceptions, recognize only the intermediary banks, brokers and other financial institutions in whose names the securities are registered as the holders of those securities, and we will make all payments on those securities, including deliveries of any property other than cash, to them. These institutions pass along the payments they receive to their customers who are the beneficial owners, but only because they agree to do so in their customer agreements or because they are legally required to do so. Investors who hold securities in street name will be indirect owners, not registered holders, of those securities.

**Registered Holders.** Subject to limited exceptions, our obligations, as well as the obligations of the trustee under any indenture and the obligations, if any, of any other third parties employed by us, run only to the registered holders of the securities. We do not have obligations to investors who hold beneficial interests in global securities, in street name or by any other indirect means. This will be the case whether an investor chooses to be an indirect owner of a security or has no choice because we are issuing the securities only in global form.

For example, once we make a payment or give a notice to the registered holder, we have no further responsibility for that payment or notice even if that holder is required, under agreements with depositary participants or customers or by law, to pass it along to the indirect owners but does not do so. Similarly, if we want to obtain the approval of the holders for any purpose — for example, to amend the indenture for a series of debt securities or to relieve us of the consequences of a default or of our obligation to comply with a particular provision of an indenture — we would seek the approval only from the registered holders, and not the indirect owners, of the relevant securities. Whether and how the registered holders contact the indirect owners is up to the registered holders.
When we refer to “you” in this prospectus, we mean all purchasers of the securities being offered by this prospectus, whether they are the registered holders or only indirect owners of those securities. When we refer to “your securities” in this prospectus, we mean the securities in which you will hold a direct or indirect interest.

Special Considerations for Indirect Owners. If you hold securities through a bank, broker or other financial institution, either in book-entry form or in street name, you should check with your own institution to find out:

- how it handles securities payments and notices;
- whether it imposes fees or charges;
- how it would handle a request for the holders’ consent, if ever required;
- how it would exercise rights under the securities if there were a default or other event triggering the need for holders to act to protect their interests; and
- if the securities are in book-entry form, how the depositary’s rules and procedures will affect these matters.

What is a Global Security?

Unless otherwise noted in the applicable prospectus supplement, we will issue each security in book-entry form only. Each security issued in book-entry form will be represented by a global security that we deposit with and register in the name of one or more financial institutions or clearing systems, or their nominees, which we select. A financial institution or clearing system that we select for any security for this purpose is called the “depositary” for that security. A security will usually have only one depositary but it may have more. Each series of securities will have one or more of the following as the depositaries:

- The Depository Trust Company, New York, New York, which is known as “DTC”;
- Euroclear System, which is known as “Euroclear”;
- Clearstream Banking, société anonyme, Luxembourg, which is known as “Clearstream”; and
- any other clearing system or financial institution named in the prospectus supplement.

The depositaries named above may also be participants in one another’s systems. Thus, for example, if DTC is the depositary for a global security, investors may hold beneficial interests in that security through Euroclear or Clearstream, as DTC participants. The depositary or depositaries for your securities will be named in your prospectus supplement; if none is named, the depositary will be DTC.

A global security may represent one or any other number of individual securities. Generally, all securities represented by the same global security will have the same terms. We may, however, issue a global security that represents multiple securities of the same kind, such as debt securities, that have different terms and are issued at different times. We call this kind of global security a master global security. Your prospectus supplement will not indicate whether your securities are represented by a master global security.

A global security may not be transferred to or registered in the name of anyone other than the depositary or its nominee, unless special termination situations arise. We describe those situations below under “— Holder’s Option to Obtain a Non-Global Security; Special Situations When a Global Security Will Be Terminated”. As a result of these arrangements, the depositary, or its nominee, will be the sole registered owner and holder of all securities represented by a global security, and investors will be permitted to own only indirect interests in a global security. Indirect interests must be held by means of an account with a broker, bank or other financial institution that in turn has an account with the depositary or with another institution that does. Thus, an investor whose security is
represented by a global security will not be a holder of the security, but only an indirect owner of an interest in the
global security.

If the prospectus supplement for a particular security indicates that the security will be issued in global
form only, then the security will be represented by a global security at all times unless and until the global security is
terminated. We describe the situations in which this can occur below under “— Holder’s Option to Obtain a Non-
Global Security; Special Situations When a Global Security Will Be Terminated”. If termination occurs, we may
issue the securities through another book-entry clearing system or decide that the securities may no longer be held
through any book-entry clearing system.

**Special Considerations for Global Securities.** As an indirect owner, an investor’s rights relating to a global
security will be governed by the account rules of the depositary and those of the investor’s bank, broker, financial
institution or other intermediary through which it holds its interest (e.g., Euroclear or Clearstream, if DTC is the
depository), as well as general laws relating to securities transfers. We do not recognize this type of investor or any
intermediary as a holder of securities and instead deal only with the depositary that holds the global security.

If securities are issued only in the form of a global security, an investor should be aware of the following:

- an investor cannot cause the securities to be registered in his or her own name, and cannot obtain non-
global certificates for his or her interest in the securities, except in the special situations we describe
below;

- an investor will be an indirect holder and must look to his or her own bank, broker or other financial
institution for payments on the securities and protection of his or her legal rights relating to the
securities, as we describe above under “— Who Is the Registered Owner of a Security?”;

- an investor may not be able to sell interests in the securities to some insurance companies and other
institutions that are required by law to own their securities in non-book-entry form;

- an investor may not be able to pledge his or her interest in a global security in circumstances in which
certificates representing the securities must be delivered to the lender or other beneficiary of the pledge
in order for the pledge to be effective;

- the depositary’s policies will govern payments, deliveries, transfers, exchanges, notices and other
matters relating to an investor’s interest in a global security, and those policies may change from time
to time. We and the trustee will have no responsibility for any aspect of the depositary’s policies,
actions or records of ownership interests in a global security. We and the trustee also do not supervise
the depositary in any way;

- the depositary may require that those who purchase and sell interests in a global security within its
book-entry system use immediately available funds and your bank, broker or other financial institution
may require you to do so as well; and

- financial institutions that participate in the depositary’s book-entry system and through which an
investor holds its interest in the global securities, directly or indirectly, may also have their own
policies affecting payments, deliveries, transfers, exchanges, notices and other matters relating to the
securities, and those policies may change from time to time. For example, if you hold an interest in a
global security through Euroclear or Clearstream, when DTC is the depositary, Euroclear or
Clearstream, as applicable, may require those who purchase and sell interests in that security through
them to use immediately available funds and comply with other policies and procedures, including
deadlines for giving instructions as to transactions that are to be effected on a particular day. There
may be more than one financial intermediary in the chain of ownership for an investor. We do not
monitor and are not responsible for the policies or actions or records of ownership interests of any of
those intermediaries.
Holder’s Option to Obtain a Non-Global Security; Special Situations When a Global Security Will Be Terminated. If we issue any series of securities in book-entry form but we choose to give the beneficial owners of that series the right to obtain non-global securities, any beneficial owner entitled to obtain non-global securities may do so by following the applicable procedures of the depositary, any transfer agent or registrar for that series and that owner’s bank, broker or other financial institution through which that owner holds its beneficial interest in the securities. If you are entitled to request a non-global certificate and wish to do so, you will need to allow sufficient lead time to enable us or our agent to prepare the requested certificate.

In addition, in a few special situations described below, a global security will be terminated and interests in it will be exchanged for certificates in non-global form representing the securities it represented. After that exchange, the choice of whether to hold the securities directly or in street name will be up to the investor. Investors must consult their own banks, brokers or other financial institutions, to find out how to have their interests in a global security transferred on termination to their own names, so that they will be holders. We have described the rights of holders and street name investors above under “—Who Is the Registered Owner of a Security?”

The special situations for termination of a global security are as follows:

- if the depositary notifies us that it is unwilling, unable or no longer qualified to continue as depositary for that global security and we do not appoint another institution to act as depositary within 60 days;

- if we notify the trustee, warrant agent or unit agent, as applicable, that we wish to terminate that global security; or

- if an event of default has occurred with regard to these debt securities and has not been cured or waived.

If a global security is terminated, only the depositary, and neither we nor the trustee for any debt securities is responsible for deciding the names of the institutions in whose names the securities represented by the global security will be registered and, therefore, who will be the registered holders of those securities.

Considerations Relating to DTC

DTC has advised us as follows:

- DTC is:
  (1) a limited purpose trust company organized under the laws of the State of New York;
  (2) a “banking organization” within the meaning of New York Banking Law;
  (3) a member of the Federal Reserve System;
  (4) a “clearing corporation” within the meaning of the New York Uniform Commercial Code; and
  (5) a “clearing agency” registered pursuant to the provisions of Section 17A of the Exchange Act.

- DTC was created to hold securities for its participants and to facilitate the clearance and settlement of securities transactions between participants through electronic book-entry changes to accounts of its participants. This eliminates the need for physical movement of securities.

- Participants in DTC include securities brokers and dealers, banks, trust companies and clearing corporations and may include certain other organizations. DTC is partially owned by some of these participants or their representatives.
• Indirect access to the DTC system is also available to banks, brokers and dealers and trust companies that have custodial relationships with participants.

• The rules applicable to DTC and DTC participants are on file with the SEC.

Considerations Relating to Clearstream and Euroclear

Euroclear and Clearstream are securities clearing systems in Europe. Both systems clear and settle securities transactions between their participants through electronic, book-entry delivery of securities against payment.

Euroclear and Clearstream may be depositaries for a global security. In addition, if DTC is the depositary for a global security, Euroclear and Clearstream may hold interests in the global security as participants in DTC.

As long as any global security is held by Euroclear or Clearstream, as depositary, you may hold an interest in the global security only through an organization that participates, directly or indirectly, in Euroclear or Clearstream. If Euroclear or Clearstream is the depositary for a global security and there is no depositary in the United States, you will not be able to hold interests in that global security through any securities clearance system in the United States.

Payments, deliveries, transfers, exchanges, notices and other matters relating to the securities made through Euroclear or Clearstream must comply with the rules and procedures of those systems. Those clearing systems could change their rules and procedures at any time. We have no control over those systems or their participants, and we take no responsibility for their activities. Transactions between participants in Euroclear or Clearstream, on one hand, and participants in DTC, on the other hand, when DTC is the depositary, would also be subject to DTC’s rules and procedures.

Special Timing Considerations Relating to Transactions in Euroclear and Clearstream. Investors will be able to make and receive through Euroclear and Clearstream payments, deliveries, transfers, exchanges, notices and other transactions involving any securities held through those clearing systems only on days when those systems are open for business. These clearing systems may not be open for business on days when banks, brokers and other institutions are open for business in the United States.

In addition, because of time-zone differences, U.S. investors who hold their interests in the securities through these clearing systems and wish to transfer their interests, or to receive or make a payment or delivery or exercise any other right with respect to their interests, on a particular day may find that the transaction will not be effected until the next business day in Luxembourg or Brussels, as applicable. Thus, investors who wish to exercise rights that expire on a particular day may need to act before the expiration date. In addition, investors who hold their interests through both DTC and Euroclear or Clearstream may need to make special arrangements to finance any purchases or sales of their interests between the U.S. and European clearing systems, and those transactions may settle later than would be the case for transactions within one clearing system.
The Trustee

The Bank of New York Mellon, as successor to the corporate trust business of JPMorgan Chase Bank, N.A., serves as the trustee for our senior debt securities. The Bank of New York Mellon also serves as the trustee for the subordinated debt securities. Consequently, if an actual or potential event of default occurs with respect to any of these securities, the trustee may be considered to have a conflicting interest for purposes of the Trust Indenture Act of 1939. In that case, the trustee may be required to resign under one or both of the indentures, and we would be required to appoint a successor trustee. For this purpose, a “potential” event of default means an event that would be an event of default if the requirements for giving us default notice or for the default having to exist for a specific period of time were disregarded. From time to time, we and our affiliates have conducted commercial banking, financial and other transactions with The Bank of New York Mellon and its respective affiliates for which fees have been paid in the ordinary course of business. We may conduct these types of transactions with each other in the future and receive fees for services performed.
TAX CONSEQUENCES
UNITED STATES TAXATION

This section describes the material United States federal income tax consequences of owning debt securities that we will offer. This section is the opinion of Sullivan & Cromwell LLP, our United States federal income tax counsel. It applies to you only if you acquire debt securities in an offering and you hold debt securities as capital assets for tax purposes. This section does not apply to persons other than U.S. holders (as defined below). The ownership of debt securities that pay interest from sources within the United States may give rise to material United States federal income tax consequences to persons other than U.S. holders. If a particular offering of debt securities is expected to pay interest from sources within the United States, the applicable supplement will specify that fact and may discuss the material United States federal income tax consequences to persons other than U.S. holders of owning such debt securities. This section does not apply to you if you are a member of a special class of holders subject to special rules, including:

- a dealer in securities or currencies;
- a trader in securities that elects to use a mark-to-market method of accounting for your securities holdings;
- a tax-exempt organization;
- a life insurance company;
- a person that owns notes that are a hedge or that are hedged against interest rate or currency risks;
- a person that holds debt securities as part of a straddle or conversion transaction;
- a U.S. holder whose functional currency is not the U.S. dollar;
- a person subject to the alternative minimum tax; or
- a bank.

This section is based on the Internal Revenue Code of 1986, as amended, its legislative history, existing and proposed regulations, published rulings and court decisions, as well as on the income tax treaty between the United States of America and Canada. These laws are subject to change, possibly on a retroactive basis.

If a partnership holds the debt securities, the United States federal income tax treatment of a partner will generally depend on the status of the partner and the tax treatment of the partnership. A partner in a partnership holding the debt securities should consult its tax advisor with regard to the United States federal income tax treatment of an investment in the debt securities.

You are urged to consult your own tax advisor regarding the United States federal, state and local and other tax consequences of owning and disposing of debt securities offered under the prospectus in your particular circumstances.

This section describes the material United States federal income tax consequences of owning debt securities to a U.S. holder. You are a U.S. holder if you are a beneficial owner of debt securities and you are:

- a citizen or resident of the United States;
- a domestic corporation;
• an estate whose income is subject to United States federal income tax regardless of its source; or

• a trust if a United States court can exercise primary supervision over the trust’s administration and one or more United States persons are authorized to control all substantial decisions of the trust.

This section deals only with debt securities that are due to mature 30 years or less from the date on which they are issued. The United States Federal income tax consequences of owning debt securities with a term of more than 30 years, indexed notes that are not treated as debt for tax purposes or that are treated as contingent payment debt obligations for tax purposes will be discussed in the applicable supplement and will not, unless otherwise specified in the applicable supplement, be taxed in accordance with the discussion in this section.

Payments of Interest

Except as described below in the case of interest on a discount debt security that is not qualified stated interest, each as defined below under “— Original Issue Discount — General”, you will be taxed on any interest on your debt securities, whether payable in U.S. dollars or a foreign currency, including a composite currency or basket of currencies other than U.S. dollars, as ordinary income at the time you receive the interest or when it accrues, depending on your method of accounting for United States tax purposes.

Unless the applicable supplement states otherwise, debt securities will, for United States federal income tax purposes, be accounted for as being issued by the Bank or one of its non-U.S. affiliates, rather than by a U.S. branch or subsidiary. Assuming this treatment is respected, interest paid by us on such debt securities will be income from sources outside the United States, subject to the rules regarding the foreign tax credit allowable to a U.S. holder. Under the foreign tax credit rules, interest from sources outside the United States will depending on your circumstances, be “passive” or “general” income for purposes of computing the foreign tax credit. If, on the contrary, a particular offering of debt securities is expected to pay interest from sources within the United States, the applicable supplement will state that fact. Interest from sources within the United States is not foreign source income for purposes of computing the foreign tax credit.

Cash Basis Taxpayers. If you are a taxpayer that uses the cash receipts and disbursements method of accounting for tax purposes and you receive an interest payment that is denominated in, or determined by reference to, a foreign currency, you must recognize income equal to the U.S. dollar value of the interest payment, based on the exchange rate in effect on the date of receipt, regardless of whether you actually convert the payment into U.S. dollars.

Accrual Basis Taxpayers. If you are a taxpayer that uses an accrual method of accounting for tax purposes, you may determine the amount of income that you recognize with respect to an interest payment denominated in, or determined by reference to, a foreign currency by using one of two methods. Under the first method, you will determine the amount of income accrued based on the average exchange rate in effect during the interest accrual period or, in the case of an accrual period that spans two taxable years, that part of the period within the taxable year.

If you elect the second method, you would determine the amount of income accrued based on the exchange rate in effect on the last day of the accrual period, or, in the case of an accrual period that spans two taxable years, the exchange rate in effect on the last day of the part of the period within the taxable year. Additionally, under this second method, if you receive a payment of interest within five business days of the last day of your accrual period or taxable year, you may instead translate the interest accrued into U.S. dollars at the exchange rate in effect on the day that you actually receive the interest payment. If you elect the second method, it will apply to all debt instruments that you hold at the beginning of the first taxable year to which the election applies and to all debt instruments that you subsequently acquire.. You may not revoke this election without the consent of the Internal Revenue Service.

In addition, when you actually receive an interest payment, including a payment attributable to accrued but unpaid interest upon the sale or retirement of your note, denominated in, or determined by reference to, a foreign currency for which you accrued an amount of income, you will recognize ordinary income or loss measured by the
difference, if any, between the exchange rate that you used to accrue interest income and the exchange rate in effect on the date of receipt, regardless of whether you actually convert the payment into U.S. dollars.

**Original Issue Discount**

*General.* If you own a debt security, other than a debt security with a term of one year or less, it will be treated as a discount debt security issued at an original issue discount if the amount by which the debt security’s stated redemption price at maturity exceeds its issue price is more than a *de minimis* amount. Generally, a debt security’s issue price will be the first price at which a substantial amount of debt securities included in the issue of which the debt security is a part is sold to persons other than bond houses, brokers, or similar persons or organizations acting in the capacity of underwriters, placement agents, or wholesalers. A debt security’s stated redemption price at maturity is the total of all payments provided by the debt security that are not payments of qualified stated interest. Generally, an interest payment on a debt security is qualified stated interest if it is one of a series of stated interest payments on a debt security that are unconditionally payable at least annually at a single fixed rate, with certain exceptions for lower rates paid during some periods, applied to the outstanding principal amount of the debt security. There are special rules for variable rate debt securities that are discussed under “– Variable Rate Debt Securities”.

In general, your debt security is not a discount debt security if the amount by which its stated redemption price at maturity exceeds its issue price is less than the *de minimis* amount of 1/4 of 1 percent of its stated redemption price at maturity multiplied by the number of complete years to its maturity. Your debt security will have *de minimis* original issue discount if the amount of the excess is less than the *de minimis* amount. If your debt security has *de minimis* original issue discount, you must include the *de minimis* amount in income as stated principal payments are made on the debt security, unless you make the election described below under “– Election to Treat All Interest as Original Issue Discount”. You can determine the includible amount with respect to each such payment by multiplying the total amount of your debt security’s *de minimis* original issue discount by a fraction equal to:

- the amount of the principal payment made
  divided by:
  - the stated principal amount of the debt security.

Generally, if your discount debt security matures more than one year from its date of issue, you must include original issue discount, or OID, in income before you receive cash attributable to that income. The amount of OID that you must include in income is calculated using a constant-yield method, and generally you will include increasingly greater amounts of OID in income over the life of your debt security. More specifically, you can calculate the amount of OID that you must include in income by adding the daily portions of OID with respect to your discount debt security for each day during the taxable year or portion of the taxable year in which you hold your discount debt security. You can determine the daily portion by allocating to each day in any accrual period a pro rata portion of the OID allocable to that accrual period. You may select an accrual period of any length with respect to your discount debt security and you may vary the length of each accrual period over the term of your discount debt security. However, no accrual period may be longer than one year and each scheduled payment of interest or principal on the discount debt security must occur on either the first or final day of an accrual period.

You can determine the amount of OID allocable to an accrual period by:

- multiplying your discount debt security’s adjusted issue price at the beginning of the accrual period by your debt security’s yield to maturity; and then

- subtracting from this figure the sum of the payments of qualified stated interest on your debt security allocable to the accrual period.
You must determine the discount debt security’s yield to maturity on the basis of compounding at the close of each accrual period and adjusting for the length of each accrual period. Further, you determine your discount debt security’s adjusted issue price at the beginning of any accrual period by:

- adding your discount debt security’s issue price and any accrued OID for each prior accrual period; and then

- subtracting any payments previously made on your discount debt security that were not qualified stated interest payments.

If an interval between payments of qualified stated interest on your discount debt security contains more than one accrual period, then, when you determine the amount of OID allocable to an accrual period, you must allocate the amount of qualified stated interest payable at the end of the interval, including any qualified stated interest that is payable on the first day of the accrual period immediately following the interval, pro rata to each accrual period in the interval based on their relative lengths. In addition, you must increase the adjusted issue price at the beginning of each accrual period in the interval by the amount of any qualified stated interest that has accrued prior to the first day of the accrual period but that is not payable until the end of the interval. You may compute the amount of OID allocable to an initial short accrual period by using any reasonable method if all other accrual periods, other than a final short accrual period, are of equal length.

The amount of OID allocable to the final accrual period is equal to the difference between:

- the amount payable at the maturity of your debt security, other than any payment of qualified stated interest; and

- your debt security’s adjusted issue price as of the beginning of the final accrual period.

**Acquisition Premium.** If you purchase your debt security for an amount that is less than or equal to the sum of all amounts, other than qualified stated interest, payable on your debt security after the purchase date but is greater than the amount of your debt security’s adjusted issue price, as determined above under “– General”, the excess is acquisition premium. If you do not make the election described below under “– Election to Treat All Interest as Original Issue Discount”, then you must reduce the daily portions of OID by a fraction equal to:

- the excess of your adjusted basis in the debt security immediately after purchase over the adjusted issue price of the debt security

  divided by:

- the excess of the sum of all amounts payable, other than qualified stated interest, on the debt security after the purchase date over the debt security’s adjusted issue price.

**Pre-Issuance Accrued Interest.** An election may be made to decrease the issue price of your debt security by the amount of pre-issuance accrued interest if:

- a portion of the initial purchase price of your debt security is attributable to pre-issuance accrued interest;

- the first stated interest payment on your debt security is to be made within one year of your debt security’s issue date; and

- the payment will equal or exceed the amount of pre-issuance accrued interest.

If this election is made, a portion of the first stated interest payment will be treated as a return of the excluded pre-issuance accrued interest and not as an amount payable on your debt security.
Debt Securities Subject to Contingencies, Including Optional Redemption. Your debt security is subject to a contingency if it provides for an alternative payment schedule or schedules applicable upon the occurrence of a contingency or contingencies, other than a remote or incidental contingency, whether such contingency relates to payments of interest or of principal. In such a case, you must determine the yield and maturity of your debt security by assuming that the payments will be made according to the payment schedule most likely to occur if:

- the timing and amounts of the payments that comprise each payment schedule are known as of the issue date; and

- one of such schedules is significantly more likely than not to occur.

If there is no single payment schedule that is significantly more likely than not to occur, other than because of a mandatory sinking fund, you must include income on your debt security in accordance with the general rules that govern contingent payment obligations. If applicable, these rules will be discussed in the applicable supplement.

Notwithstanding the general rules for determining yield and maturity, if your debt security is subject to contingencies, and either you or we have an unconditional option or options that, if exercised, would require payments to be made on the debt security under an alternative payment schedule or schedules, then:

- in the case of an option or options that we may exercise, we will be deemed to exercise or not to exercise an option or combination of options in the manner that minimizes the yield on your debt security; and

- in the case of an option or options that you may exercise, you will be deemed to exercise or not to exercise an option or combination of options in the manner that maximizes the yield on your debt security.

If both you and we hold options described in the preceding sentence, those rules will apply to each option in the order in which they may be exercised. You may determine the yield on your debt security for the purposes of those calculations by using any date on which your debt security may be redeemed or repurchased as the maturity date and the amount payable on the date that you chose in accordance with the terms of your debt security as the principal amount payable at maturity.

If a contingency, including the exercise of an option, actually occurs or does not occur contrary to an assumption made according to the above rules then, except to the extent that a portion of your debt security is repaid as a result of this change in circumstances and solely to determine the amount and accrual of OID, you must redetermine the yield and maturity of your debt security by treating your debt security as having been retired and reissued on the date of the change in circumstances for an amount equal to your debt security’s adjusted issue price on that date.

Election to Treat All Interest as Original Issue Discount. You may elect to include in gross income all interest that accrues on your debt security using the constant-yield method described above under “— General”, with the modifications described below. For purposes of this election, interest will include stated interest, OID, de minimis original issue discount, market discount, de minimis market discount and unstated interest, as adjusted by any amortizable bond premium, described below under “— Debt Securities Purchased at a Premium”, or acquisition premium.

If you make this election for your debt security, then, when you apply the constant-yield method:

- the issue price of your debt security will equal your cost;

- the issue date of your debt security will be the date you acquired it; and

- no payments on your debt security will be treated as payments of qualified stated interest.
Generally, this election will apply only to the debt security for which you make it; however, if the debt security has amortizable bond premium, you will be deemed to have made an election to apply amortizable bond premium against interest for all debt instruments with amortizable bond premium, other than debt instruments the interest on which is excludable from gross income, that you hold as of the beginning of the taxable year to which the election applies or any taxable year thereafter. Additionally, if you make this election for a market discount note, you will be treated as having made the election discussed below under “— Market Discount” to include market discount in income currently over the life of all debt instruments that you currently own or later acquire. You may not revoke any election to apply the constant-yield method to all interest on a debt security or the deemed elections with respect to amortizable bond premium or market discount debt securities without the consent of the Internal Revenue Service.

**Variable Rate Debt Securities.** Your debt security will be a variable rate debt security if:

- your debt security’s issue price does not exceed the total noncontingent principal payments by more than the lesser of:
  - 0.015 multiplied by the product of the total noncontingent principal payments and the number of complete years to maturity from the issue date; or
  - 15 percent of the total noncontingent principal payments; and

- your debt security provides for stated interest, compounded or paid at least annually, only at:
  - one or more qualified floating rates;
  - a single fixed rate and one or more qualified floating rates;
  - a single objective rate; or
  - a single fixed rate and a single objective rate that is a qualified inverse floating rate.

Your debt security will have a variable rate that is a qualified floating rate if:

- variations in the value of the rate can reasonably be expected to measure contemporaneous variations in the cost of newly borrowed funds in the currency in which your debt security is denominated; or

- the rate is equal to such a rate multiplied by either:
  - a fixed multiple that is greater than 0.65 but not more than 1.35; or
  - a fixed multiple greater than 0.65 but not more than 1.35, increased or decreased by a fixed rate; and
  - the value of the rate on any date during the term of your debt security is set no earlier than three months prior to the first day on which that value is in effect and no later than one year following that first day.

If your debt security provides for two or more qualified floating rates that are within 0.25 percentage points of each other on the issue date or can reasonably be expected to have approximately the same values throughout the term of the debt security, the qualified floating rates together constitute a single qualified floating rate.

Your debt security will not have a qualified floating rate, however, if the rate is subject to certain restrictions (including caps, floors, governors, or other similar restrictions) unless such restrictions are fixed.
throughout the term of the debt security or are not reasonably expected to significantly affect the yield on the debt security.

Your debt security will have a variable rate that is a single objective rate if:

- the rate is not a qualified floating rate;
- the rate is determined using a single, fixed formula that is based on objective financial or economic information that is not within the control of or unique to the circumstances of the issuer or a related party; and
- the value of the rate on any date during the term of your debt security is set no earlier than three months prior to the first day on which that value is in effect and no later than one year following that first day.

Your debt security will not have a variable rate that is an objective rate, however, if it is reasonably expected that the average value of the rate during the first half of your debt security’s term will be either significantly less than or significantly greater than the average value of the rate during the final half of your debt security’s term.

An objective rate as described above is a qualified inverse floating rate if:

- the rate is equal to a fixed rate minus a qualified floating rate; and
- the variations in the rate can reasonably be expected to inversely reflect contemporaneous variations in the cost of newly borrowed funds.

Your debt security will also have a single qualified floating rate or an objective rate if interest on your debt security is stated at a fixed rate for an initial period of one year or less followed by either a qualified floating rate or an objective rate for a subsequent period, and either:

- the fixed rate and the qualified floating rate or objective rate have values on the issue date of the debt security that do not differ by more than 0.25 percentage points; or
- the value of the qualified floating rate or objective rate is intended to approximate the fixed rate.

In general, if your variable rate debt security provides for stated interest at a single qualified floating rate or objective rate, or one of those rates after a single fixed rate for an initial period, all stated interest on your debt security is qualified stated interest. In this case, the amount of OID, if any, is determined by using, in the case of a qualified floating rate or qualified inverse floating rate, the value as of the issue date of the qualified floating rate or qualified inverse floating rate, or, for any other objective rate, a fixed rate that reflects the yield reasonably expected for your debt security.

If your variable rate debt security does not provide for stated interest at a single qualified floating rate or a single objective rate, and also does not provide for interest payable at a fixed rate other than a single fixed rate for an initial period, you generally must determine the interest and OID accruals on your debt security by:

- determining a fixed rate substitute for each variable rate provided under your variable rate debt security;
- constructing the equivalent fixed rate debt instrument, using the fixed rate substitute described above;
- determining the amount of qualified stated interest and OID with respect to the equivalent fixed rate debt instrument; and
• adjusting for actual variable rates during the applicable accrual period.

When you determine the fixed rate substitute for each variable rate provided under the variable rate debt security, you generally will use the value of each variable rate as of the issue date or, for an objective rate that is not a qualified inverse floating rate, a rate that reflects the reasonably expected yield on your debt security.

If your variable rate debt security provides for stated interest either at one or more qualified floating rates or at a qualified inverse floating rate and also provides for stated interest at a single fixed rate other than at a single fixed rate for an initial period, you generally must determine interest and OID accruals by using the method described in the previous paragraph. However, your variable rate debt security will be treated, for purposes of the first three steps of the determination, as if your debt security had provided for a qualified floating rate, or a qualified inverse floating rate, rather than the fixed rate. The qualified floating rate, or qualified inverse floating rate, that replaces the fixed rate must be such that the fair market value of your variable rate debt security as of the issue date approximates the fair market value of an otherwise identical debt instrument that provides for the qualified floating rate, or qualified inverse floating rate, rather than the fixed rate.

**Short-Term Debt Securities.** In general, if you are an individual or other cash basis U.S. holder of a short-term debt security, you are not required to accrue OID, as specially defined below for the purposes of this paragraph, for United States federal income tax purposes unless you elect to do so (although it is possible that you may be required to include any stated interest in income as you receive it). If you are an accrual basis taxpayer, a taxpayer in a special class, including, but not limited to, a regulated investment company, common trust fund, or a certain type of pass-through entity, or a cash basis taxpayer who so elects, you will be required to accrue OID on short-term debt securities on either a straight-line basis or under the constant-yield method, based on daily compounding. If you are not required and do not elect to include OID in income currently, any gain you realize on the sale or retirement of your short-term debt security will be ordinary income to the extent of the accrued OID, which will be determined on a straight-line basis unless you make an election to accrue the OID under the constant-yield method, through the date of sale or retirement. However, if you are not required and do not elect to accrue OID on your short-term debt securities, you will be required to defer deductions for interest on borrowings allocable to your short-term debt securities in an amount not exceeding the deferred income until the deferred income is realized.

When you determine the amount of OID subject to these rules, you must include all interest payments on your short-term debt security, including stated interest, in your short-term debt security’s stated redemption price at maturity.

**Foreign Currency Discount Notes.** If your discount note is denominated in, or determined by reference to, a foreign currency, you must determine OID for any accrual period on your discount note in the foreign currency and then translate the amount of OID into U.S. dollars in the same manner as stated interest accrued by an accrual basis U.S. holder, as described under “— U.S. Holders — Payments of Interest”. You may recognize ordinary income or loss when you receive an amount attributable to OID in connection with a payment of interest or the sale or retirement of your note.

**Market Discount**

You will be treated as if you purchased your debt security, other than a short-term debt security, at a market discount, and your debt security will be a market discount debt security if:

• you purchase your debt security for less than its issue price as determined above under “— Original Issue Discount – General”; and

• the difference between the debt security’s stated redemption price at maturity or, in the case of a discount debt security, the debt security’s revised issue price, and the price you paid for your debt security is equal to or greater than 1/4 of 1 percent of your debt security’s stated redemption price at maturity or revised issue price, respectively, multiplied by the number of complete years to the debt security’s maturity. To determine the revised issue price of your debt security for these purposes, you generally add any OID that has accrued on your debt security to its issue price.
If your debt security’s stated redemption price at maturity or, in the case of a discount debt security, its revised issue price, exceeds the price you paid for the debt security by less than 1/4 of 1 percent multiplied by the number of complete years to the debt security’s maturity, the excess constitutes de minimis market discount, and the rules discussed below are not applicable to you.

You must treat any gain you recognize on the maturity or disposition of your market discount debt security as ordinary income to the extent of the accrued market discount on your debt security. Alternatively, you may elect to include market discount in income currently over the life of your debt security. If you make this election, it will apply to all debt instruments with market discount that you acquire on or after the first day of the first taxable year to which the election applies. You may not revoke this election without the consent of the Internal Revenue Service. If you own a market discount debt security and do not make this election, you will generally be required to defer deductions for interest on borrowings allocable to your debt security in an amount not exceeding the accrued market discount on your debt security until the maturity or disposition of your debt security.

You will accrue market discount on your market discount debt security on a straight-line basis unless you elect to accrue market discount using a constant-yield method. If you make this election, it will apply only to the debt security with respect to which it is made and you may not revoke it.

**Debt Securities Purchased at a Premium**

If you purchase your debt security for an amount in excess of its principal amount, you may elect to treat the excess as amortizable bond premium. If you make this election, you will reduce the amount required to be included in your income each year with respect to interest on your debt security by the amount of amortizable bond premium allocable to that year, based on your debt security’s yield to maturity. If your note is denominated in, or determined by reference to, a foreign currency, you will compute your amortizable bond premium in units of the foreign currency and your amortizable bond premium will reduce your interest income in units of the foreign currency. Gain or loss recognized that is attributable to changes in exchange rates between the time your amortized bond premium offsets interest income and the time of the acquisition of your note is generally taxable as ordinary income or loss. If you make an election to amortize bond premium, it will apply to all debt instruments, other than debt instruments the interest on which is excludible from gross income, that you hold at the beginning of the first taxable year to which the election applies or that you thereafter acquire, and you may not revoke it without the consent of the Internal Revenue Service. See also “— Original Issue Discount – Election to Treat All Interest as Original Issue Discount”.

**Purchase, Sale and Retirement of the Debt Securities**

Your tax basis in your debt security will generally be your cost of your debt security adjusted by:

- adding any OID or market discount, de minimis original issue discount previously included in income with respect to your debt security; and then

- subtracting any payments on your debt security that are not qualified stated interest payments (except for payments in respect of de minimis market discount) and any amortizable bond premium applied to reduce interest on your debt security.

If you purchase your note with foreign currency, the U.S. dollar cost of your note will generally be the U.S. dollar value of the purchase price on the date of purchase. However, if you are a cash basis taxpayer or an accrual basis taxpayer that so elects and your note is traded on an established securities market, as defined in the applicable Treasury regulations, the U.S. dollar cost of your note will be the U.S. dollar value of the purchase price on the settlement date of your purchase.

You will generally recognize gain or loss on the sale or retirement of your debt security equal to the difference between the amount you realize on the sale or retirement and your tax basis in your debt security. If your note is sold or retired for an amount in foreign currency, the amount you realize will be the U.S. dollar value of such amount on the date the note is disposed of or retired, except that in the case of a note that is traded on an established
securities market, as defined in the applicable Treasury regulations, a cash basis taxpayer, or an accrual basis taxpayer that so elects, will determine the amount realized based on the U.S. dollar value of the foreign currency on the settlement date of the sale.

You will recognize capital gain or loss when you sell or retire your debt security, except to the extent:

- described above under “— Original Issue Discount – Short-Term Debt Securities” or “— Market Discount”;
- attributable to accrued but unpaid interest;
- the rules governing contingent payment obligations apply; or
- attributable to changes in exchange rates as described below.

Capital gain of a noncorporate U.S. holder that is recognized in taxable years beginning before January 1, 2011 is generally taxed at a maximum rate of 15% where the holder has a holding period of greater than one year.

You must treat any portion of the gain or loss that you recognize on the sale or retirement of a note as ordinary income or loss to the extent attributable to changes in exchange rates. However, you take exchange gain or loss into account only to the extent of the total gain or loss you realize on the transaction.

Exchange of Amounts in other than U.S. Dollars

If you receive foreign currency as interest on your note or on the sale or retirement of your note, your tax basis in such foreign currency will equal its U.S. dollar value when the interest is received or at the time of the sale or retirement. If you purchase foreign currency, you generally will have a tax basis equal to the U.S. dollar value of such foreign currency on the date of your purchase. If you sell or dispose of foreign currency, including if you use it to purchase notes or exchange them for U.S. dollars, any gain or loss recognized generally will be ordinary income or loss.

Indexed Debt Securities and Exchangeable Debt Securities

The applicable supplement will discuss any special United States federal income tax rules with respect to debt securities the payments of which are determined by reference to any index, other debt securities that are subject to the rules governing contingent payment obligations that are not subject to the rules governing variable rate debt securities and debt securities exchangeable for stock or securities of the Bank or another entity or entities, into the cash value therefore or into any combination of the above.

Treasury Regulations Requiring Disclosure of Reportable Transactions

Treasury regulations require United States taxpayers to report certain transactions that give rise to a loss in excess of certain thresholds (a “Reportable Transaction”). Under these regulations, if the notes are denominated in a foreign currency, a U.S. holder (or a U.S. alien holder that holds the notes in connection with a U.S. trade or business) that recognizes a loss with respect to the notes that is characterized as an ordinary loss due to changes in currency exchange rates (under any of the rules discussed above) would be required to report the loss on Internal Revenue Service Form 8886 (Reportable Transaction Statement) if the loss exceeds the thresholds set forth in the regulations. For individuals and trusts, this loss threshold is $50,000 in any single taxable year. For other types of taxpayers and other types of losses, the thresholds are higher. You should consult with your tax advisor regarding any tax filing and reporting obligations that may apply in connection with acquiring, owning and disposing of notes.

Information Reporting and Backup Withholding

If you are a noncorporate U.S. holder, information reporting requirements, on Internal Revenue Service Form 1099, generally will apply to:
• payments of principal and interest on a debt security within the United States, including payments made by wire transfer from outside the United States to an account you maintain in the United States; and

• the payment of the proceeds from the sale of a debt security effected at a United States office of a broker.

Additionally, backup withholding will apply to such payments if you are a noncorporate U. S. holder that:

• fails to provide an accurate taxpayer identification number, is notified by the Internal Revenue Service that you have failed to report all interest and dividends required to be shown on your federal income tax returns; or

• in certain circumstances, fails to comply with applicable certification requirements.

Payment of the proceeds from the sale of a debt security effected at a foreign office of a broker generally will not be subject to information reporting or backup withholding. However, a sale of a debt security that is effected at a foreign office of a broker will be subject to information reporting and backup withholding if:

• the proceeds are transferred to an account maintained by you in the United States;

• the payment of proceeds or the confirmation of the sale is mailed to you at a United States address; or

• the sale has some other specified connection with the United States as provided in U.S. Treasury regulations,

unless the broker does not have actual knowledge or reason to know that you are a United States person and the documentation requirements described above are met or you otherwise establish an exemption.

In addition, a sale of a debt security effected at a foreign office of a broker will be subject to information reporting if the broker is:

• a United States person;

• a controlled foreign corporation for United States tax purposes;

• a foreign person 50% or more of whose gross income is effectively connected with the conduct of a United States trade or business for a specified three-year period; or

• a foreign partnership, if at any time during its tax year:
  • one or more of its partners are “U.S. persons”, as defined in U.S. Treasury regulations, who in the aggregate hold more than 50% of the income or capital interest in the partnership; or
  • such foreign partnership is engaged in the conduct of a United States trade or business,

unless the broker does not have actual knowledge or reason to know that you are a United States person and the documentation requirements described above are met or you otherwise establish an exemption. Backup withholding will apply if the sale is subject to information reporting and the broker has actual knowledge that you are a United States person.

You generally may obtain a refund of any amounts withheld under the backup withholding rules that exceed your income tax liability by filing a refund claim with the United States Internal Revenue Service.
CANADIAN TAXATION

In the opinion of Ogilvy Renault LLP, Canadian tax counsel to the Bank, the following summary describes the material Canadian federal income tax considerations under the Income Tax Act (Canada) (the “Act”) and Income Tax Regulations (the “Regulations”) generally applicable to a holder of debt securities who acquires debt securities in the original offering, and who, at all relevant times, is not resident and is not deemed to be resident in Canada, who deals at arm’s length with the Bank and any Canadian resident (or deemed Canadian resident) to whom the holder disposes the debt securities, and who does not use or hold and is not deemed to use or hold debt securities in or in the course of carrying on a business in Canada and is not an insurer carrying on an insurance business in Canada and elsewhere (a “Non-resident Holder”).

This summary is based upon the provisions of the Act and the Regulations in force on the date hereof, proposed amendments to the Act and the Regulations in a form publicly announced prior to the date hereof by or on behalf of the Minister of Finance (Canada) (included for this purpose in the reference to the Act and Regulations) and the current administrative practices and policies published in writing by the Canada Revenue Agency. This summary does not take into account or anticipate any other changes in law, whether by legislative, governmental or judicial action or interpretation, nor does it take into account provincial, territorial or foreign income tax legislation. Subsequent developments could have a material effect on the following description.

Canadian federal income tax considerations applicable to debt securities may be described particularly, when such debt securities are offered, in the applicable supplement related thereto. In the event the Canadian federal income tax considerations are described in such supplement, the following description will be superseded by the description in the supplement to the extent indicated therein.

Interest paid or credited or deemed for purposes of the Act to be paid or credited by the Bank on a debt security (including any amount paid at maturity in excess of the principal amount and interest deemed to be paid on the debt security in certain cases involving the assignment or other transfer of a debt security to a resident or deemed resident of Canada) to a Non-resident Holder will not be subject to Canadian non-resident withholding tax unless any portion of such interest (other than on a “prescribed obligation” described below) is contingent or dependent on the use of or production from property in Canada or is computed by reference to revenue, profit, cash flow, commodity price or any other similar criterion or by reference to dividends paid or payable to shareholders of any class of shares of the capital stock of a corporation (a “Participating Debt Interest”). A “prescribed obligation” is a debt obligation the terms or conditions of which provide for an adjustment to an amount payable in respect of the obligation for a period during which the obligation was outstanding which adjustment is determined by reference to a change in the purchasing power of money and no amount payable in respect thereof, other than an amount determined by reference to a change in the purchasing power of money, is contingent or dependent upon any of the criteria described in the definition of Participating Debt Interest. If any interest paid or credited or deemed to be paid or credited on a debt security is to be calculated by reference to an index which could be viewed as a proxy for the profit of the Bank, such interest may be subject to Canadian non-resident withholding tax. The Canadian withholding tax implications of such an issuance will be described particularly in the relevant supplement if such debt securities are offered.

In the event that a debt security which is not exempt from Canadian withholding tax according to its terms is redeemed, cancelled, or repurchased, as applicable, or purchased by the Bank or any other person resident or deemed to be resident in Canada from a Non-resident Holder or is otherwise assigned or transferred by a Non-resident Holder to a person resident or deemed to be resident in Canada for an amount which exceeds, generally, the issue price thereof or in certain cases the price for which such debt security was assigned or transferred by a person resident or deemed to be resident in Canada to the Non-resident Holder, the excess may, in certain circumstances, be deemed to be interest and may be subject to non-resident withholding tax if the debt security is not considered to be an “excluded obligation” for purposes of the Act. A debt security that was issued for an amount not less than 97% of the principal amount (as defined for the purposes of the Act) of the debt security, and the yield from which, expressed in terms of an annual rate (determined in accordance with the Act) on the amount for which the debt security was issued does not exceed 4/3 of the interest stipulated to be payable on the debt security, expressed in terms of an annual rate on the outstanding principal amount from time to time will be an excluded obligation for this purpose.
Generally, there are no other taxes on income (including taxable capital gains) payable in respect of a debt security or interest, discount, or premium thereon by a Non-resident Holder.

**PLAN OF DISTRIBUTION**

We may sell any series of debt securities at any time after effectiveness of the Registration Statement of which this prospectus forms a part in one or more of the following ways from time to time:

- through underwriters or dealers;
- through agents; or
- directly to one or more purchasers.

The offered securities may be distributed periodically in one or more transactions at:

- a fixed price or prices, which may be changed;
- market prices prevailing at the time of sale;
- prices related to the prevailing market prices; or
- negotiated prices.

The prospectus supplement will include:

- the initial public offering price;
- the names of any underwriters, dealers or agents;
- the purchase price of the securities;
- our proceeds from the sale of the securities;
- any underwriting discounts or agency fees and other underwriters’ or agents’ compensation;
- any discounts or concessions allowed or reallowed or paid to dealers;
- the place and time of delivery of the securities; and
- any securities exchange on which the securities may be listed.

If underwriters are used in the sale, they will buy the securities for their own account. The underwriters may then resell the securities in one or more transactions, at any time or times at a fixed public offering price or at varying prices. The underwriters may change from time to time any fixed public offering price and any discounts or commissions allowed or re-allowed or paid to dealers. If dealers are utilized in the sale of the securities, we will sell the securities to the dealers as principals. The dealers may then resell the securities to the public at varying prices to be determined by such dealers.

In connection with the offering of securities, we may grant to the underwriters an option to purchase additional securities to cover over-allotments, if any, at the initial public offering price (with an additional underwriting commission), as may be set forth in the prospectus supplement for such securities. If we grant any over-allotment option, the terms of the option will be set forth in the prospectus supplement for the securities.
This prospectus may be delivered by underwriters and dealers in connection with short sales undertaken to hedge exposures under commitments to acquire our securities to be issued on a delayed or contingent basis.

Underwriters, dealers and agents that participate in the distribution of the securities may be underwriters as defined in the U.S. Securities Act of 1933. Any discounts or commissions that we pay them and any profit they receive when they resell the securities may be treated as underwriting discounts and commissions under that Act. We may have agreements with underwriters, dealers and agents to indemnify them against certain civil liabilities, including liabilities under the U.S. Securities Act of 1933, to contribute with respect to payments which they may be required to make in respect of such liabilities and to reimburse them for certain expenses.

Underwriters, dealers and agents, and their affiliates or associates, may engage in transactions with us or perform services for us in the ordinary course of business and receive compensation from us.

Each series of offered securities will be a new issue of securities and will have no established trading market. Securities may or may not be listed on a national or foreign securities exchange or automated quotation system. Any underwriters or agents to whom securities are sold for public offering or sale may make, but are not required to make, a market in the securities, and the underwriters or agents may discontinue making a market in the securities at any time without notice. No assurance can be given as to the liquidity or the existence of trading markets for any securities.

Any underwriters utilized may engage in stabilizing transactions and syndicate covering transactions in accordance with Rule 104 of Regulation M under the Securities Exchange Act of 1934. Stabilizing transactions permit bids to purchase the offered securities or any underlying security so long as the stabilizing bids do not exceed a specified maximum. Syndicate covering transactions involve purchases of securities in the open market after the distribution has been completed in order to cover syndicate short positions. Such stabilizing transactions and syndicate covering transactions may cause the price of the offered securities to be higher than would be the case in the absence of such transactions.

Market-Making Resales By Affiliates

This prospectus may be used by RBC Capital Markets Corporation in connection with offers and sales of the securities in market-making transactions. In a market-making transaction, RBC Capital Markets Corporation may resell a security it acquires from other holders, after the original offering and sale of the security. Resales of this kind may occur in the open market or may be privately negotiated, at prevailing market prices at the time of resale or at related or negotiated prices. In these transactions, RBC Capital Markets Corporation may act as principal or agent, including as agent for the counterparty in a transaction in which RBC Capital Markets Corporation acts as principal, or as agent for both counterparties in a transaction in which RBC Capital Markets Corporation does not act as principal. RBC Capital Markets Corporation may receive compensation in the form of discounts and commissions, including from both counterparties in some cases.

The securities to be sold in market-making transactions include securities to be issued after the date of this prospectus, as well as securities previously issued.

We do not expect to receive any proceeds from market-making transactions. We do not expect that RBC Capital Markets Corporation or any other affiliate that engages in these transactions will pay any proceeds from its market-making resales to us.

Information about the trade and settlement dates, as well as the purchase price, for a market-making transaction will be provided to the purchaser in a separate confirmation of sale.

Unless we or an agent informs you in your confirmation of sale that your security is being purchased in its original offering and sale, you may assume that you are purchasing your security in a market-making transaction.
Conflicts of Interest

Our affiliate, RBC Capital Markets Corporation, may participate in the distribution of the securities as an underwriter, dealer or agent. Any offering of securities in which RBC Capital Markets Corporation participates will be conducted in compliance with the applicable requirements of NASD Rule 2720, a rule of the Financial Industry Regulatory Authority, Inc. (“FINRA”). RBC Capital Markets Corporation will not participate in the distribution of an offering of securities that do not have a bona fide public market within the meaning of Rule 2720 and are not investment grade rated within the meaning of Rule 2720 or securities in the same series that have equal rights and obligations as investment grade rated securities unless either (1) each member firm responsible for managing the public offering does not have a conflict of interest within the meaning of Rule 2720, is not an affiliate of any member that does have a conflict of interest, and meets the requirements of Rule 2720 with respect to disciplinary history or (2) a qualified independent underwriter has participated in the preparation of the prospectus supplement or other offering document for the offering of securities and has exercised the usual standards of due diligence with respect thereto. Neither RBC Capital Markets Corporation nor any other FINRA member participating in an offering of these securities that has a conflict of interest will confirm initial sales to any discretionary accounts over which it has authority without the prior specific written approval of the customer.

In compliance with guidelines of FINRA, the maximum commission or discount to be received by the participating FINRA members may not exceed 8% of the aggregate principal amount of securities offered pursuant to this prospectus. We anticipate, however, that the maximum commission or discount to be received in any particular offering of securities will be significantly less than this amount.
BENEFIT PLAN INVESTOR CONSIDERATIONS

A fiduciary of a pension, profit-sharing or other employee benefit plan (a “plan”) subject to the Employee Retirement Income Security Act of 1974, as amended (“ERISA”), should consider the fiduciary standards of ERISA in the context of the plan’s particular circumstances before authorizing an investment in the debt securities. Accordingly, among other factors, the fiduciary should consider whether the investment would satisfy the prudence and diversification requirements of ERISA and would be consistent with the documents and instruments governing the plan, and whether the investment would involve a prohibited transaction under Section 406 of ERISA or Section 4975 of the Internal Revenue Code (the “Code”).

Section 406 of ERISA and Section 4975 of the Code prohibit plans, as well as individual retirement accounts and Keogh plans subject to Section 4975 of the Internal Revenue Code (also “plans”), from engaging in certain transactions involving “plan assets” with persons who are “parties in interest” under ERISA or “disqualified persons” under the Code (“parties in interest”) with respect to the plan. A violation of these prohibited transaction rules may result in civil penalties or other liabilities under ERISA and/or an excise tax under Section 4975 of the Code for those persons, unless exemptive relief is available under an applicable statutory, regulatory or administrative exemption. Certain employee benefit plans and arrangements including those that are governmental plans (as defined in section 3(32) of ERISA), certain church plans (as defined in Section 3(33) of ERISA) and foreign plans (as described in Section 4(b)(4) of ERISA) (“non-ERISA arrangements”) are not subject to the requirements of ERISA or Section 4975 of the Code but may be subject to similar provisions under applicable federal, state, local, foreign or other regulations, rules or laws (“similar laws”).

The acquisition or, if applicable, exchange of the debt securities by a plan with respect to which we or certain of our affiliates is or becomes a party in interest may constitute or result in a prohibited transaction under ERISA or Section 4975 of the Code, unless those notes are acquired pursuant to and in accordance with an applicable exemption. The U.S. Department of Labor has issued five prohibited transaction class exemptions, or “PTCEs”, that may provide exemptive relief if required for direct or indirect prohibited transactions that may arise from the purchase or holding of the notes. These exemptions are:

- PTCE 84-14, an exemption for certain transactions determined or effected by independent qualified professional asset managers;
- PTCE 90-1, an exemption for certain transactions involving insurance company pooled separate accounts;
- PTCE 91-38, an exemption for certain transactions involving bank collective investment funds;
- PTCE 95-60, an exemption for transactions involving certain insurance company general accounts; and
- PTCE 96-23, an exemption for plan asset transactions managed by in-house asset managers.

Any purchaser or holder of debt securities or any interest therein will be deemed to have represented by its purchase and holding of the debt securities that it either (1) is not a plan and is not purchasing those debt securities on behalf of or with “plan assets” of any plan or (2) with respect to the purchase or holding or, if applicable, exchange is eligible for the exemptive relief available under any of the PTCEs listed above or there is some other basis on which such purchase and holding is not prohibited. In addition, any purchaser or holder of debt securities or any interest therein which is a non-ERISA arrangement will be deemed to have represented by its purchase or holding or, if applicable, exchange of the debt securities that its purchase and holding will not violate the provisions of any similar law.

Due to the complexity of these rules and the penalties that may be imposed upon persons involved in non-exempt prohibited transactions, it is important that fiduciaries or other persons considering purchasing debt securities on behalf of or with “plan assets” of any plan or non-ERISA arrangement consult with their counsel regarding the availability of exemptive relief under any of the PTCEs listed above or some other basis on which such purchase and holding is not prohibited, or the potential consequences of any purchase, holding or exchange under similar laws, as applicable.
Each purchaser and holder of the debt securities has exclusive responsibility for ensuring that its purchase and holding of the debt securities does not violate the fiduciary or prohibited transaction rules of ERISA, the Code or any similar laws. The sale of any debt securities to any plan is in no respect a representation by us or any of our affiliates or representatives that such an investment meets all relevant legal requirements with respect to investments by plans generally or any particular plan, or that such an investment is appropriate for plans generally or any particular plan.

LIMITATIONS ON ENFORCEMENT OF U.S. LAWS AGAINST THE BANK, OUR MANAGEMENT AND OTHERS

We are a Canadian chartered bank. Many of our directors and executive officers, including many of the persons who signed the Registration Statement on Form F-3, of which this prospectus is a part, and some of the experts named in this document, reside outside the United States, and a substantial portion of our assets and all or a substantial portion of the assets of such persons are located outside the United States. As a result, it may be difficult for you to effect service of process within the United States upon such persons to enforce against them judgments of the courts of the United States predicated upon, among other things, the civil liability provisions of the federal securities laws of the United States. In addition, it may be difficult for you to enforce, in original actions brought in courts in jurisdictions located outside the United States, among other things, civil liabilities predicated upon such securities laws.

We have been advised by our Canadian counsel, Ogilvy Renault LLP, that a judgment of a United States court predicated solely upon civil liability under such laws would probably be enforceable in Canada if the United States court in which the judgment was obtained has a basis for jurisdiction in the matter that was recognized by a Canadian court for such purposes. We have also been advised by such counsel, however, that there is substantial doubt whether an original action could be brought successfully in Canada predicated solely upon such civil liabilities.

VALIDITY OF SECURITIES

The validity of the debt securities will be passed upon by Ogilvy Renault LLP, Toronto, Ontario, as to matters of Canadian law and applicable matters of Ontario law, and by Sullivan & Cromwell LLP, New York, New York, as to matters of New York law. Davis Polk & Wardwell, New York, New York will issue an opinion as to certain legal matters for the agents or underwriters.

EXPERTS

The consolidated financial statements incorporated by reference in this prospectus from the Bank’s Annual Report on Form 40-F for the year ended October 31, 2009 and the effectiveness of the Bank’s internal control over financial reporting have been audited by Deloitte & Touche LLP, Independent Registered Chartered Accountants, as stated in their reports, which are incorporated herein by reference. Such financial statements have been so incorporated in reliance upon the reports of such firm given upon their authority as experts in accounting and auditing.
OTHER EXPENSES OF ISSUANCE AND DISTRIBUTION

The estimated expenses in connection with this offering, other than underwriting discounts and commissions, are as follows (in U.S. dollars):

Registration Statement filing fee ...........................................................................................................................................$300,000
Trustees’ fees and expenses ...........................................................................................................................................$1,500,000
Legal fees and expenses ......................................................................................................................................................$1,500,000
Accounting fees and expenses ...........................................................................................................................................$800,000
Printing costs ..............................................................................................................................................................$500,000
Miscellaneous .............................................................................................................................................................$1,650,000

Total ..............................................................................................................................................................................$6,250,000
No dealer, salesman or other person has been authorized to give any information or to make any representation not contained in this product prospectus supplement or the accompanying prospectus or prospectus supplement and, if given or made, such information or representation must not be relied upon as having been authorized by Royal Bank of Canada or RBC Capital Markets Corporation. This product prospectus supplement, the accompanying prospectus and prospectus supplement do not constitute an offer to sell or a solicitation of an offer to buy any securities other than the securities described in this product prospectus supplement nor do they constitute an offer to sell or a solicitation of an offer to buy the securities in any jurisdiction to any person to whom it is unlawful to make such offer or solicitation in such jurisdiction. The delivery of this product prospectus supplement, the accompanying prospectus and prospectus supplement at any time does not imply that the information they contain is correct as of any time subsequent to their respective dates.

Royal Bank of Canada

Senior Global Medium-Term Notes, Series D

Reverse Convertible Notes Linked to an Equity Security or an Exchange Traded Fund

June 25, 2010