

ROYAL BANK OF CANADA
Form FWP
January 04, 2019

ISSUER FREE WRITING PROSPECTUS

Filed Pursuant to Rule 433

Registration Statement No. 333- 227001

Dated January 4, 2019

Royal Bank of Canada Capped Buffer GEARS

\$• Securities Linked to the Russell 2000® Index due on or about January 29, 2021

Investment Description

Capped Buffer GEARS (each, a “Security” and collectively, the “Securities”) are unconditional, unsecured and unsubordinated debt securities issued by Royal Bank of Canada with returns linked to the performance of the Russell 2000® Index (the “Underlying”). If the Underlying Return (as defined below) is positive, we will repay the principal amount at maturity plus pay a return equal to 2 (the “Upside Gearing”) times the Underlying Return, up to the Maximum Gain. If the Underlying Return is zero or negative, but the Final Underlying Level is greater than or equal to the Downside Threshold, we will repay the full principal amount at maturity. However, if the Underlying Return is negative and the Final Underlying Level is less than the Downside Threshold, we will pay less than the principal amount at maturity and you will lose 1% of the principal amount of your Securities for every 1% decline in the level of the Underlying in excess of the Buffer, up to a loss of 90% of your investment. The Securities are not subject to conversion into our common shares under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act. Investing in the Securities involves significant risks. The Securities do not pay dividends or interest. You may lose up to 90% of your principal amount if the Final Underlying Level is less than the Downside Threshold. The downside exposure of the Underlying is buffered only at maturity. Any payment on the Securities, including any repayment of principal, is subject to our creditworthiness. If we were to default on our payment obligations, you may not receive any amounts owed to you under the Securities and you could lose your entire investment. The Securities will not be listed on any securities exchange.

Features Key Dates¹

Enhanced Growth Potential, Up to the Maximum Gain - At maturity, if the Underlying Return is positive, we will pay you the principal amount plus a return equal to the Upside Gearing times the Underlying Return up to the Maximum Gain. If the Underlying Return is negative and the Final Underlying Level is below the Downside Threshold, investors will be exposed to the negative Underlying Return at maturity.

Buffered Downside Market Exposure - If the Underlying Return is zero or negative, but the Final Underlying Level is greater than or equal to the Downside Threshold, we will pay the full principal amount at maturity. However, if the Underlying Return is negative and the Final Underlying Level is below the Downside Threshold, we will pay less than the full principal amount, resulting in a loss of the principal amount that is proportionate to the percentage decline in the Underlying in excess of the Buffer. Accordingly, you may lose up to 90% of the principal amount of the Securities. The downside exposure to the Underlying is buffered only at maturity. Any payment on the Securities, including any repayment of principal, is subject to our creditworthiness.

Trade Date¹ January 28, 2019

Settlement Date¹ January 31, 2019

Final Valuation Date² January 26, 2021

Maturity Date² January 29, 2021

¹ Expected. In the event that we make any change to the expected Trade Date and Settlement Date, the Final Valuation Date and Maturity Date will be changed so that the stated term of the Securities remains approximately the same.

² Subject to postponement in the event of a market disruption event, as described under “General Terms of the Securities—Payment at Maturity” in the accompanying product prospectus supplement UBS-IND-1.

NOTICE TO INVESTORS: THE SECURITIES ARE SIGNIFICANTLY RISKIER THAN CONVENTIONAL DEBT INSTRUMENTS. THE ISSUER IS NOT NECESSARILY OBLIGATED TO REPAY THE FULL PRINCIPAL AMOUNT OF THE SECURITIES AT MATURITY, AND THE SECURITIES HAVE FULL

DOWNSIDE MARKET RISK SIMILAR TO THE UNDERLYING. THIS MARKET RISK IS IN ADDITION TO THE CREDIT RISK INHERENT IN PURCHASING OUR DEBT OBLIGATION. YOU SHOULD NOT PURCHASE THE SECURITIES IF YOU DO NOT UNDERSTAND OR ARE NOT COMFORTABLE WITH THE SIGNIFICANT RISKS INVOLVED IN INVESTING IN THE SECURITIES.

YOU SHOULD CAREFULLY CONSIDER THE RISKS DESCRIBED UNDER “KEY RISKS” BEGINNING ON PAGE 5 OF THIS FREE WRITING PROSPECTUS AND UNDER “RISK FACTORS” BEGINNING ON PAGE PS-4 OF THE ACCOMPANYING PRODUCT PROSPECTUS SUPPLEMENT UBS-IND-1 BEFORE PURCHASING ANY SECURITIES. EVENTS RELATING TO ANY OF THOSE RISKS, OR OTHER RISKS AND UNCERTAINTIES, COULD ADVERSELY AFFECT THE MARKET VALUE OF, AND THE RETURN ON, YOUR SECURITIES. YOU COULD LOSE UP TO 90% OF THE PRINCIPAL AMOUNT OF THE SECURITIES.

Security Offering

We are offering Capped Buffer GEARS Linked to the Russell 2000® Index. The return on the principal amount is subject to, and will not exceed, the predetermined Maximum Gain, which will be determined on the Trade Date. The Securities are offered at a minimum investment of 100 Securities at the Price to Public described below. The indicative Maximum Gain range for the Securities is listed below. The actual Maximum Gain, Initial Underlying Level and Downside Threshold for the Securities will be determined on the Trade Date.

Underlying	Upside Gearing	Buffer	Downside Threshold	Maximum Gain	Initial Underlying Level	CUSIP	ISIN
Russell 2000® Index (RTY)	2	10%	90% of the Initial Level	[20.75% - 22.75%]	•	78014H169	US78014H1692

See “Additional Information About Royal Bank of Canada and the Securities” in this free writing prospectus. The Securities will have the terms specified in the prospectus dated September 7, 2018, the prospectus supplement dated September 7, 2018, product prospectus supplement UBS-IND-1 dated September 7, 2018, and this free writing prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of the Securities or passed upon the accuracy or the adequacy of this free writing prospectus or the accompanying prospectus, prospectus supplement and product prospectus supplement UBS-IND-1. Any representation to the contrary is a criminal offense.

Offering of the Securities	Price to Public	Fees and Commissions ⁽¹⁾	Proceeds to Us
	Total Per Security	Total Per Security	Total Per Security
Securities Linked to the Russell 2000® Index (RTY)	• \$10.00	• \$0.20	• \$9.80

⁽¹⁾ UBS Financial Services Inc., which we refer to as UBS, will receive a commission that will depend on market conditions on the Trade Date. In no event will the commission received by UBS exceed \$0.20 per \$10 principal amount of the Securities. See “Supplemental Plan of Distribution (Conflicts of Interest)” below.

The initial estimated value of the Securities as of the date of this document is \$9.7514 per \$10 in principal amount, which is less than the price to public. The pricing supplement relating to the Securities will set forth our estimate of the initial value of the Securities as of the Trade Date, which will not be more than \$0.20 less than this amount. The actual value of the Securities at any time will reflect many factors, cannot be predicted with accuracy, and may be less than this amount. We describe our determination of the initial estimated value under “Key Risks” beginning on page 5, “Supplemental Plan of Distribution (Conflicts of Interest)” and “Structuring the Securities” below.

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

UBS Financial Services Inc. RBC Capital Markets, LLC

Additional Information About Royal Bank of Canada and the Securities

Royal Bank of Canada has filed a registration statement (including a prospectus) with the Securities and Exchange Commission, or SEC, for the offering to which this free writing prospectus relates. Before you invest, you should read the prospectus in that registration statement and the other documents relating to this offering that Royal Bank of Canada has filed with the SEC for more complete information about Royal Bank of Canada and this offering. You may obtain these documents without cost by visiting EDGAR on the SEC website at www.sec.gov. Alternatively, Royal Bank of Canada, any agent or any dealer participating in this offering will arrange to send you the prospectus, the prospectus supplement, product prospectus supplement UBS-IND-1 and this free writing prospectus if you so request by calling toll-free 1-877-688-2301.

You may revoke your offer to purchase the Securities at any time prior to the time at which we accept such offer by notifying the applicable agent. We reserve the right to change the terms of, or reject any offer to purchase, the Securities prior to their issuance. In the event of any changes to the terms of the Securities, we will notify you and you will be asked to accept such changes in connection with your purchase. You may also choose to reject such changes, in which case we may reject your offer to purchase.

You should read this free writing prospectus together with the prospectus dated September 7, 2018, as supplemented by the prospectus supplement dated September 7, 2018, relating to our senior global medium-term notes, Series H, of which these Securities are a part, and the more detailed information contained in product prospectus supplement UBS-IND-1 dated September 7, 2018. This free writing prospectus, together with the documents listed below, contains the terms of the Securities and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours. You should carefully consider, among other things, the matters set forth in “Risk Factors” in the accompanying product prospectus supplement UBS-IND-1, as the Securities involve risks not associated with conventional debt securities.

If the terms discussed in this free writing prospectus differ from those discussed in the product prospectus supplement, the prospectus supplement, or the prospectus, the terms discussed herein will control.

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

“Product prospectus supplement UBS-IND-1 dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000114036118038046/form424b5.htm>

“Prospectus supplement dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005975/f97180424b3.htm>

“Prospectus dated September 7, 2018:

<https://www.sec.gov/Archives/edgar/data/1000275/000121465918005973/l96181424b3.htm>

As used in this free writing prospectus, “we,” “us” or “our” refers to Royal Bank of Canada.

Investor Suitability

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

- .. You fully understand the risks inherent in an investment in the Securities, including the risk of loss of up to 90% of the principal amount.
- .. You can tolerate the loss of up to 90% of your initial investment and you are willing to make an investment that has similar downside market risk as a hypothetical investment in the Underlying, subject to the Buffer at Maturity.
- .. You believe that the level of the Underlying will appreciate over the term of the Securities and that the appreciation is unlikely to exceed the Maximum Gain.
You understand and accept that your potential return is limited by the Maximum Gain and you would be willing to invest in the Securities if the Maximum Gain was set to the bottom of the range indicated on the cover page of this free writing prospectus (the actual Maximum Gain will be determined on the Trade Date).
- .. You can tolerate fluctuations in the price of the Securities prior to maturity that may be similar to or exceed the downside fluctuations in the level of the Underlying.
- .. You do not seek current income from your investment and are willing to forgo dividends paid on the securities represented by the Underlying.
- .. You are willing to hold the Securities to maturity and accept that there may be little or no secondary market for the Securities.
- .. You are willing to assume our credit risk for all payments under the Securities, and understand that if we default on our obligations, you may not receive any amounts due to you, including any repayment of principal.
- .. You fully understand and accept the risks associated with the Underlying.

The Securities may not be suitable for you if, among other considerations:

- .. You do not fully understand the risks inherent in an investment in the Securities, including the risk of loss of up to 90% of your investment.
- .. You require an investment designed to provide a full return of principal at maturity.
You cannot tolerate the loss of up to 90% of the principal amount of the Securities, and you are not willing to make an investment that has similar downside market risk as a hypothetical investment in the Underlying, subject to the Buffer at Maturity.
- .. You believe that the level of the Underlying will decline over the term of the Securities, or you believe the level of the Underlying will appreciate over the term of the Securities by a percentage that exceeds the Maximum Gain.
- .. You seek an investment that has unlimited return potential without a cap on appreciation.
- .. You would be unwilling to invest in the Securities if the Maximum Gain was set to the bottom of the range indicated on the cover page of this free writing prospectus (the actual Maximum Gain will be determined on the Trade Date).
- .. You cannot tolerate fluctuations in the price of the Securities prior to maturity that may be similar to or exceed the downside fluctuations in the level of the Underlying.
- .. You seek current income from this investment or prefer to receive the dividends paid on the securities represented by the Underlying.
- .. You are unable or unwilling to hold the Securities to maturity or you seek an investment for which there will be an active secondary market.
- .. You are not willing to assume our credit risk for all payments under the Securities, including any repayment of principal.
- .. You do not fully understand and accept the risks associated with the Underlying.

The suitability considerations identified above are not exhaustive. Whether or not the Securities are a suitable investment for you will depend on your individual circumstances, and you should reach an investment decision only after you and your investment, legal, tax, accounting, and other advisers have carefully considered the suitability of an investment in the Securities in light of your particular circumstances. You should also review carefully the “Key Risks” in this free writing prospectus and “Risk Factors” in the accompanying product prospectus supplement UBS-IND-1 for risks related to an investment in the Securities. In addition, you should review carefully the section below, “Information About the Underlying,” for more information about the Underlying.

Indicative Terms of the Securities¹

Issuer: Royal Bank of Canada
 Issue Price: \$10 per Security (subject to a minimum purchase of 100 Securities).
 Principal Amount: \$10 per Security
 Term:² Approximately 2 years
 Underlying: Russell 2000® Index
 Upside Gearing: 2
 Maximum Gain: [20.75% to 22.75%] (to be determined on the Trade Date)
 Buffer: 10%
 Downside Threshold: 90% of the Initial Level

If the Underlying Return is positive, we will pay you:
 $\$10 + (\$10 \times \text{the lesser of (i) Upside Gearing} \times \text{Underlying Return and (ii) Maximum Gain})$
 If the Underlying Return is zero or negative, but the Final Underlying Level is not below the Downside Threshold, we will pay you:
 $\$10$

Payment at Maturity (per \$10 Security):
 If the Underlying Return is negative and the Final Underlying Level is below the Downside Threshold, we will pay you:
 $\$10 + (\$10 \times (\text{Underlying Return} + \text{Buffer}))$
 In this scenario, you will lose up to 80.00% of the principal amount of the Securities in an amount proportionate to the percentage the Underlying has declined in excess of the Buffer.

Underlying Return: $\frac{\text{Final Underlying Level} - \text{Initial Underlying Level}}{\text{Initial Underlying Level}}$
 Initial Underlying Level: The closing level of the Underlying on the Trade Date.
 Final Underlying Level: The closing level of the Underlying on the Final Valuation Date.

¹ Terms used in this free writing prospectus, but not defined herein, shall have the meanings ascribed to them in the product prospectus supplement.

² In the event we make any change to the expected Trade Date and Settlement Date, the Final Valuation Date and Maturity Date will be changed to ensure that the stated term of the Securities remains approximately the same.

Investment Timeline

Trade Date: The Maximum Gain is set. The Initial Underlying Level is determined.

Maturity Date: The Final Underlying Level and Underlying Return are determined.

If the Underlying Return is positive, we will pay you a cash payment per \$10 Security that provides you with your principal amount plus a return equal to the Underlying Return multiplied by the Upside Gearing, subject to the Maximum Gain. Your payment at maturity per \$10 Security will be equal to:

$\$10 + (\$10 \times \text{the lesser of (i) Upside Gearing} \times \text{Underlying Return and (ii) Maximum Gain})$

If the Underlying Return is zero or negative, but the Final Underlying Level is not below the Downside Threshold, we will pay you a cash payment of \$10 per \$10 Security.

If the Final Underlying Level is negative and the Final Underlying Level is below the Downside Threshold,

we will pay you a cash payment that is less than your initial investment of \$10 per Security, resulting in a loss that is proportionate to the percentage decline of the Underlying in excess of the Buffer, and equal to:

$$\$10 + (\$10 \times (\text{Underlying Return} + \text{Buffer}))$$

In this scenario, you will lose up to 90% of the principal amount of the Securities, in an amount proportionate to the percentage that the Underlying has declined in excess of the Buffer.

INVESTING IN THE SECURITIES INVOLVES SIGNIFICANT RISKS. YOU MAY LOSE UP TO 90% OF YOUR PRINCIPAL AMOUNT. ANY PAYMENT ON THE SECURITIES, INCLUDING ANY REPAYMENT OF PRINCIPAL, IS SUBJECT TO OUR CREDITWORTHINESS. IF WE WERE TO DEFAULT ON OUR PAYMENT OBLIGATIONS, YOU MAY NOT RECEIVE ANY AMOUNTS OWED TO YOU UNDER THE SECURITIES AND YOU COULD LOSE YOUR ENTIRE INVESTMENT.

Key Risks

An investment in the Securities involves significant risks. Investing in the Securities is not equivalent to investing directly in any of the component securities of the Underlying. These risks are explained in more detail in the “Risk Factors” section of the accompanying product prospectus supplement UBS-IND-1. We also urge you to consult your investment, legal, tax, accounting and other advisors before investing in the Securities.

Risks Relating to the Securities Generally

Your Investment in the Securities May Result in a Loss of Principal — The Securities differ from ordinary debt securities in that we are not necessarily obligated to repay the full principal amount of the Securities at maturity. The return on the Securities at maturity is linked to the performance of the Underlying and will depend on whether, and the extent to which, the Underlying Return is positive or negative. If the Underlying Return is negative and the Final Underlying Level is below the Downside Threshold, you will be exposed to any negative Underlying Return in excess of the Buffer and we will pay you less than your principal amount at maturity, resulting in a loss of principal of your Securities that is proportionate to the percentage decline in the Underlying in excess of the Buffer.

Accordingly, you could lose up to 90% of the principal amount of the Securities.

The Buffer Applies Only if You Hold the Securities to Maturity — The application of the Buffer only applies at maturity. If you are able to sell your Securities in the secondary market prior to maturity, you may have to sell them at a loss even if the Underlying has not declined by more than the 10.00% Buffer at the time of sale.

The Upside Gearing Applies Only if You Hold the Securities to Maturity — The application of the Upside Gearing only applies at maturity. If you are able to sell your Securities prior to maturity in the secondary market, the price you receive will likely not reflect the full effect of the Upside Gearing and the return you realize may be less than the Upside Gearing times the return of the Underlying at the time of sale, even if that return is positive and does not exceed the Maximum Gain.

The Appreciation Potential of the Securities Is Limited by the Maximum Gain — If the Underlying Return is positive, we will pay you \$10 per Security at maturity plus an additional return that will not exceed the Maximum Gain, regardless of the appreciation in the Underlying, which may be significant. Therefore, you will not benefit from any appreciation of the Underlying in excess of an amount that, when multiplied by the Upside Gearing, exceeds the Maximum Gain and your return on the Securities may be less than your return would be on a hypothetical direct investment in the securities represented by the Underlying.

No Interest Payments — We will not pay any interest with respect to the Securities.

An Investment in the Securities Is Subject to Our Credit Risk — The Securities are our unsubordinated, unsecured debt obligations, and are not, either directly or indirectly, an obligation of any third party. Any payment to be made on the Securities, including any repayment of principal at maturity, depends on our ability to satisfy our obligations as they come due. As a result, our actual and perceived creditworthiness may affect the market value of the Securities and, in the event we were to default on our obligations, you may not receive any amounts owed to you under the terms of the Securities and you could lose your entire initial investment.

The Securities Will Be Subject to Risks, Including Non-Payment in Full, Under Canadian Bank Resolution Powers — Under Canadian bank resolution powers, the Canada Deposit Insurance Corporation (“CDIC”) may, in circumstances where we have ceased, or are about to cease, to be viable, assume temporary control or ownership over us and may be granted broad powers by one or more orders of the Governor in Council (Canada), including the power to sell or dispose of all or a part of our assets, and the power to carry out or cause us to carry out a transaction or a series of transactions the purpose of which is to restructure our business of the Bank. As See “Description of Debt Securities Canadian Bank Resolution Powers” in the accompanying prospectus for a description of the Canadian bank resolution powers, including the bail-in regime. If the CDIC were to take action under the Canadian bank resolution powers with respect to us, this could result in holders of the Securities being exposed to losses.

Your Return on the Securities May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity — The return that you will receive on the Securities, which could be negative, may be less than the return you could earn on other investments. Even if your return is positive, your return may be less than the return you could earn if you bought a conventional senior interest bearing debt security of ours with the same maturity date or if you were able to invest directly in the Underlying or the securities included in the Underlying. Your investment may not reflect the full opportunity cost to you when you take into account factors that affect the time value of money.

No Dividend Payments or Voting Rights — Investing in the Securities is not equivalent to investing directly in any of the component securities of the Underlying. As a holder of the Securities, you will not have voting rights or rights to receive cash dividends or other distributions or other rights that holders of the securities represented by the Underlying would have. The Underlying is a price return index, and the Underlying Return excludes any cash dividend payments paid on its component stocks.

The Initial Estimated Value of the Securities Will Be Less than the Price to the Public — The initial estimated value that is set forth on the cover page of this document, and that will be set forth in the final pricing supplement for the Securities, will be less than the public offering price you pay for the Securities, does not represent a minimum price at which we, RBCCM or any of our other affiliates would be willing to purchase the Securities in any secondary market (if any exists) at any time. If you attempt to sell the Securities prior to maturity, their market value may be lower than the price you paid for them and the initial estimated value. This is due to, among other things, changes in the level of the Underlying, the borrowing rate we pay to issue securities of this kind, and the inclusion in the price to the public of the underwriting discount, and our estimated profit and the costs relating to our hedging of the Securities. These factors, together with various credit, market and economic factors over the term of the Securities, are expected to reduce the price at which you may be able to sell the Securities in any secondary market and will affect the value of the Securities in complex and unpredictable ways. Assuming no change in market conditions or any other relevant factors, the price, if any, at which you may be able to sell your Securities prior to maturity may be less than the price to public, as any such sale price would not be expected to include the underwriting discount and our estimated profit and the costs relating to our hedging of the Securities. In addition, any price at which you may sell the Securities is likely to reflect customary bid-ask spreads for similar trades. In addition to bid-ask spreads, the value of the Securities determined for any secondary market price is expected to be based on a secondary market rate rather than the internal borrowing rate used to price the Securities and determine the initial estimated value. As a result, the secondary price will be less than if the internal borrowing rate was used. The Securities are not designed to be short-term trading instruments. Accordingly, you should be able and willing to hold your Securities to maturity.

Our Initial Estimated Value of the Securities Is an Estimate Only, Calculated as of the Time the Terms of the Securities Are Set — The initial estimated value of the Securities is based on the value of our obligation to make the payments on the Securities, together with the mid-market value of the derivative embedded in the terms of the Securities. See “Structuring the Securities” below. Our estimate is based on a variety of assumptions, including our credit spreads, expectations as to dividends, interest rates and volatility, and the expected term of the Securities. These assumptions are based on certain forecasts about future events, which may prove to be incorrect. Other entities may value the Securities or similar securities at a price that is significantly different than we do.

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

Changes Affecting the Underlying — The policies of the index sponsor concerning additions, deletions and substitutions of the stocks included in the Underlying and the manner in which the index sponsor takes account of certain changes affecting those stocks included in the Underlying may adversely affect its level. The policies of the index sponsor with respect to the calculation of the Underlying could also adversely affect its level. The index sponsor may discontinue or suspend calculation or dissemination of the Underlying and has no obligation to consider your interests in the Securities when taking any action regarding the Underlying. Any such actions could have an adverse effect on the value of the Securities and the amount that may be paid at maturity.

Lack of Liquidity — The Securities will not be listed on any securities exchange. RBC Capital Markets, LLC ("RBCCM") intends to offer to purchase the Securities in the secondary market, but is not required to do so. Even if there is a secondary market, it may not provide enough liquidity to allow you to trade or sell the Securities easily. Because other dealers are not likely to make a secondary market for the Securities, the price at which you may be able to trade your Securities is likely to depend on the price, if any, at which RBCCM is willing to buy the Securities.

Potential Conflicts — We and our affiliates play a variety of roles in connection with the issuance of the Securities, including hedging our obligations under the Securities. In performing these duties, the economic interests of the calculation agent and other affiliates of ours are potentially adverse to your interests as an investor in the Securities.

Potentially Inconsistent Research, Opinions or Recommendations by RBCCM, UBS or Their Affiliates — RBCCM, UBS or their affiliates may publish research, express opinions or provide recommendations that are inconsistent with investing in or holding the Securities, and which may be revised at any time. Any such research, opinions or recommendations could affect the level of the Underlying or the equity securities included in the Underlying, and therefore, the market value of the Securities.

An Investment in Securities Linked to the RTY Is Subject to Risks Associated in Investing in Stocks with a Small Market Capitalization. — The RTY consists of stocks issued by companies with relatively small market capitalizations. These companies often have greater stock price volatility, lower trading volume and less liquidity than large-capitalization companies. As a result, the level of the RTY may be more volatile than that of a market measure that does not track solely small-capitalization stocks. Stock prices of small-capitalization companies are also often more vulnerable than those of large-capitalization companies to adverse business and economic developments, and the stocks of small-capitalization companies may be thinly traded, and be less attractive to many investors if they do not pay dividends. In addition, small capitalization companies are often less well-established and less stable financially than large-capitalization companies and may depend on a small number of key personnel, making them more vulnerable to loss of those individuals. Small capitalization companies tend to have lower revenues, less diverse product lines, smaller shares of their target markets, fewer financial resources and fewer competitive strengths than large-capitalization companies. These companies may also be more susceptible to adverse developments related to their products or services.

Uncertain Tax Treatment — Significant aspects of the tax treatment of an investment in the Securities are uncertain. You should consult your tax adviser about your tax situation.

Potential Royal Bank of Canada and UBS Impact on Price — Trading or other transactions by Royal Bank of Canada, UBS and our respective affiliates in the equity securities composing the Underlying or in futures, options, exchange-traded funds or other derivative products on the equity securities included in the Underlying may adversely affect the market value of those equity securities, the level of the Underlying, and, therefore, the market value of the Securities.

The Probability That the Underlying Will Fall Below the Downside Threshold on the Final Valuation Date Will Depend on the Volatility of the Underlying — "Volatility" refers to the frequency and magnitude of changes in the level of the Underlying. Greater expected volatility with respect to the Underlying reflects a higher expectation as of the Trade Date that the Underlying could close below its Downside Threshold on the Final Valuation Date, resulting in the loss of up to 90% of your investment. However, an Underlying's volatility can change significantly over the term of the Securities. The level of the Underlying could fall sharply, which could result in a significant loss of principal.

The Terms of the Securities at Issuance and Their Market Value Prior to Maturity Will Be Influenced by Many Unpredictable Factors — Many economic and market factors will influence the terms of the Securities at issuance and their value prior to maturity. These factors are similar in some ways to those that could affect the value of a combination of instruments that might be used to replicate the payments on the Securities, including a combination of a bond with one or more options or other derivative instruments. For the market value of the Securities, we expect that, generally, the level of the Underlying on any day will affect the value of the Securities more than any other single factor. However, you should not expect the value of the Securities in the secondary market to vary in proportion to changes in the level of the Underlying. The value of the Securities will be affected by a number of other factors that may either offset or magnify each other, including:

• the actual or expected volatility of the Underlying;

• the time remaining to maturity of the Securities;

• the dividend rates on the securities represented by the Underlying;

• interest and yield rates in the market generally, as well as in each of the markets of the securities represented by the Underlying;

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

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

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

Hypothetical Examples and Return Table at Maturity

Hypothetical terms only. Actual terms may vary. See the cover page for actual offering terms.

The following table and hypothetical examples below illustrate the payment at maturity per \$10.00 Security for a hypothetical range of Underlying Returns from -100.00% to +100.00% and assume a hypothetical Initial Underlying Level of 3,000.00, a Downside Threshold of 90% of the Initial Level, a hypothetical Maximum Gain of 20.75% (the low end of the range set forth above), and reflect the Upside Gearing of 2. The actual Initial Underlying Level, Downside Threshold and Maximum Gain will be set on the Trade Date. The hypothetical Payment at Maturity examples set forth below are for illustrative purposes only and may not be the actual returns applicable to a purchaser of the Securities. The actual payment at maturity will be determined based on the Final Underlying Level on the Final Valuation Date. You should consider carefully whether the Securities are suitable to your investment goals. The numbers appearing in the table below have been rounded for ease of analysis.

Example 1 - On the Final Valuation Date, the Underlying closes 2% above the Initial Underlying Level. Because the Underlying Return is positive, we will pay you an amount based upon the lesser of the Underlying Return times the Upside Gearing and the hypothetical Maximum Gain. Since the Underlying Return of 2% times the Upside Gearing is less than the hypothetical Maximum Gain, we will pay you at maturity a cash payment of \$10.40 per \$10 principal amount Security, calculated as follows:

$$\$10 + (\$10 \times 2\% \times 2) = \$10 + \$0.40 = \$10.40$$

Example 2 - On the Final Valuation Date, the Underlying closes 20% above the Initial Underlying Level. Because the Underlying Return is positive, we will pay you an amount based upon the lesser of the Underlying Return times the Upside Gearing and the hypothetical Maximum Gain. Since the Underlying Return of 20% times the Upside Gearing is greater than the hypothetical Maximum Gain, we will pay you at maturity a cash payment of \$12.075 per \$10 principal amount Security, calculated as follows:

$$\$10 + (\$10 \times 20.75\%) = \$10 + \$2.075 = \$12.075$$

Example 3 - On the Final Valuation Date, the Underlying closes 40% above the Initial Underlying Level. Because the Underlying Return is positive, we will pay you an amount based upon the lesser of the Underlying Return times the Upside Gearing and the hypothetical Maximum Gain. Since the Underlying Return of 40% times the Upside Gearing is greater than the hypothetical Maximum Gain, we will pay you at maturity a cash payment of \$12.075 per \$10 principal amount Security, calculated as follows:

$$\$10 + (\$10 \times 20.75\%) = \$10 + \$2.075 = \$12.075$$

Example 4 - On the Final Valuation Date, the Underlying closes 5% below the Initial Underlying Level. Because the Underlying Return is negative, but the Final Underlying Level is not below the Downside Threshold, we will pay at maturity \$10 per \$10 principal amount Security (a zero percent return).

Example 5 - On the Final Valuation Date, the Underlying closes 40% below the Initial Underlying Level. Because the Underlying Return is -40%, which is negative, and the Final Underlying Level is below the Downside Threshold, we will pay you at maturity a cash payment of \$8.00 per \$10 principal amount Security (a 25% loss on the principal amount), calculated as follows:

$$\$10 + [\$10 \times (-40\% + 10\%)] = \$10 - \$3.00 = \$7.00$$

Hypothetical Final Underlying Level	Hypothetical Underlying Return ¹	Hypothetical Payment at Maturity	Hypothetical Total Return on Securities ²
6,000.00	100.00%	\$12.075	20.75%
5,250.00	75.00%	\$12.075	20.75%
4,500.00	50.00%	\$12.075	20.75%
4,200.00	40.00%	\$12.075	20.75%
3,900.00	30.00%	\$12.075	20.