

EMERGING MARKETS TELECOMMUNICATIONS FUND INC/NEW

Form 4

May 07, 2007

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Check this box
if no longer
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Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
SECURITIES**

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

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
GOLDSTEIN PHILLIP

(Last) (First) (Middle)

60 HERITAGE DRIVE

(Street)

PLEASANTVILLE, NY 10570

(City) (State) (Zip)

2. Issuer Name **and** Ticker or Trading
Symbol

**EMERGING MARKETS
TELECOMMUNICATIONS FUND
INC/NEW [ETF]**

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

05/04/2007

4. If Amendment, Date Original
Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

☒ Director ☐ 10% Owner
☐ Officer (give title below) ☐ Other (specify below)

6. Individual or Joint/Group Filing(Check
Applicable Line)
☒ Form filed by One Reporting Person
☐ Form filed by More than One Reporting
Person

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
			Code	V	Amount (A) or (D)	Price			
common stock	05/04/2007		S		10,500	D \$ 20.9714	711,399	I	as investment adviser to clients and family accounts
common stock							16,285.639	D	

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

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SEC 1474
(9-02)

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repor Trans (Instr
						Date Exercisable	Expiration Date	Title	Amount or Number of Shares
				Code	V (A) (D)				

Reporting Owners

Reporting Owner Name / Address	Relationships
	Director 10% Owner Officer Other
GOLDSTEIN PHILLIP 60 HERITAGE DRIVE PLEASANTVILLE, NY 10570	X

Signatures

/s/Karen Regan, as
attorney-in-fact 05/07/2007

__Signature of Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number. div style="MARGIN-BOTTOM: 2pt; FONT-SIZE: 9.5pt; FONT-FAMILY: Arial; COLOR: #000000; TEXT-ALIGN: center; MARGIN-TOP: 2pt">20.00%

\$195.50
-80.45%
10.00%
\$97.75
-90.23%
0.00%

\$0.00

-100.00%

(1) Due to the payment formula set forth above, for you to receive a Redemption Amount greater than the principal amount the Notes, the Percentage Amount must be greater than approximately 102.30%.

(2) If the Percentage Amount is not at least approximately 102.30%, you will lose some or all of the principal amount of the Notes.

Please see the sections below, “Selected Risk Considerations—Principal at Risk” and “—The Notes Will Not Reflect the Full Performance of the Reference Stocks, Which Will Negatively Impact Your Return on the Notes.”

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Direct Investment Notes

Linked to the February 2017 RBC Capital
Markets U.S. Equity Top Picks List due March
8, 2018

SELECTED RISK CONSIDERATIONS

An investment in the Notes involves significant risks. Investing in the Notes is not equivalent to investing directly in the Reference Stocks. These risks are explained in more detail in the section “Risk Factors” beginning on page PS-4 of 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 all or a substantial portion of their principal amount if there is a decline in the value of the Basket. Investors will also lose a portion of their principal amount if the Percentage Amount is not at least approximately 102.30%.

The Notes May Not Pay Interest and Your Return May Be Lower than the Return on a Conventional Debt Security of Comparable Maturity – There may be no periodic interest payments on the Notes, and any such payments may be less than there would be on a conventional fixed-rate or floating-rate debt security having the same maturity. The amount of each interest payment, if any, will depend upon the amount of dividends paid on each Reference Stock during the Interest Calculation Period preceding each interest payment date. The yield that you will receive on your Notes, which could be negative, may be less than the yield you could earn if you purchased a standard senior debt security of ours with the same maturity date. Your investment may not reflect the full opportunity cost to you when you take into account factors that affect the time value of money.

The Notes Will Not Reflect the Full Performance of the Reference Stocks, Which Will Negatively Impact Your Return on the Notes – Because the calculation of the Redemption Amount for each \$1,000 in principal amount reflects the product of the Percentage Amount and \$977.50, the return, if any, on the Notes will not reflect the full performance of the Reference Stocks. Therefore, the yield to maturity based on the methodology for calculating the Redemption Amount will be less than the yield that would be produced if the Reference Stocks were purchased and held for a similar period. Similarly, the interest payments you receive on the Notes will be less than the applicable Dividend Amounts.

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 all required payments on the Notes will be dependent upon Royal Bank’s ability to repay its obligations as of the applicable payment date. This will be the case even if the value of the Basket increases after the Pricing Date, or if substantial payments are made on the Reference Stocks. No assurance can be given as to what our financial condition will be at any time during the term of the Notes.

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. RBCCM and other affiliates of Royal Bank may make a market for the Notes; however, they are not required to do so. RBCCM 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.

You Will Not Have Any Rights to the Reference Stocks – As a holder of the Notes, you will not have voting rights or other rights that holders of the Reference Stocks would have. You will have no right to receive shares of the Reference Stocks.

The Historical Performance of the Reference Stocks Should Not Be Taken as an Indication of Their Future Performance – The Final Prices of the Reference Stocks will determine the Redemption Amount. The historical performance of the Reference Stocks does not necessarily give an indication of their future performance. As a result, it is impossible to predict whether the prices of the Reference Stocks will rise or fall during the term of the Notes.

The prices of the Reference Stocks will be influenced by complex and interrelated political, economic, financial and other factors.

Holders of the Reference Stocks Are Only Entitled to Receive Those Dividends as Each Issuer's Board of Directors May Declare out of Funds Legally Available – Although dividends and distributions on one or more of the

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Reference Stocks may have historically been declared by the applicable board of directors, they are not required to do so and may reduce or eliminate those dividends in the future. The Dividend Amount of one or more of the Reference Stocks during the term of the Notes may be zero. If the dividends paid on the Reference Stocks are not significant, any interest payments that you receive on the Notes may not be sufficient to provide you with your desired return on the Notes.

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

The Initial Estimated Value of the Notes on the Cover Page Is an Estimate Only, Calculated as of the Time the Terms of the Notes Were Set – The initial estimated value of the Notes is based on the value of our obligation to make the payments on the Notes, together with the mid-market value of the derivative embedded in the terms of the Notes.

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

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

Our Business Activities May Create Conflicts of Interest – We and our affiliates expect to engage in trading activities related to the Reference Stocks 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 prices of the Reference Stocks, 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 issuers of the Reference Stocks, including making loans to or providing advisory services. 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. Any of these activities by us or one or more of our affiliates may affect the value of the Reference Stocks, and, therefore, the market value of the Notes.

You Must Rely on Your Own Evaluation of the Merits of an Investment Linked to the Reference Stocks – In the ordinary course of their business, RBCCM and our other affiliates have expressed views on the value of the

Reference Stocks and/or expected movements in their prices, and may do so in the future. These views or reports may be communicated to 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 Reference Stocks from multiple sources, and you should not rely solely on views expressed by us or our affiliates.

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Direct Investment Notes

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Some Reference Stocks Have Limited Historical Information – Because four of the Reference Stocks have limited trading history, your investment in the Notes may involve a greater risk than investing in securities linked to one or more equity securities with more established records of performance.

The Inclusion of the Reference Stocks in the Basket Does Not Guarantee a Positive Return on the Notes – There can be no assurance that any Reference Stock, or the Basket in its entirety, will increase in value. The performance of the Reference Stocks may be less than the performance of the equities markets generally, and less than the performance of specific sectors of the equity markets, or other securities in which you may choose to invest. As of the date of this document, the Equity Research Department of RBCCM believes that the prices of the Reference Stocks have the potential to increase during the term of the Notes. However, there can be no assurance that they will in fact do so. Although RBCCM has expressed a positive view as to the Reference Stocks prior to the date of this pricing supplement, its views may change significantly during the term of the Notes. In addition, any positive views of RBCCM's research divisions are separate and apart from the offering of the Notes, and do not constitute investment advice. Our offering of the Notes does not constitute our recommendation or the recommendation of RBCCM or our other affiliates to invest in the Notes or in the Reference Stocks.

An Investment in the Notes Is Subject to Risks Relating to Foreign Securities Markets – Three of the Reference Stocks are organized outside of the U.S. An investment linked to companies of this type involves particular risks. For example, the relevant foreign markets may be more volatile than the U.S. markets, and market developments may affect these markets differently from the U.S. or other securities markets. Direct or indirect government intervention to stabilize the securities markets outside the U.S., as well as cross-shareholdings in certain companies, may affect trading prices and trading volumes in those markets.

As Calculation Agent, RBCCM Will Have the Authority to Make Determinations that Could Affect the Value of Your Notes and Your Payment at Maturity – As calculation agent for your Notes, RBCCM will have discretion in making various determinations that affect your Notes, including determining the Final Prices, the Percentage Amount, the Redemption Amount, the amounts of any interest payments on the Notes, and whether any market disruption events have occurred. The Calculation Agent also has discretion in making certain adjustments relating to mergers and certain other corporate transactions that an issuer of a Reference Stock may undertake. The exercise of this discretion by RBCCM could adversely affect the value of your Notes and may present RBCCM, which is our wholly owned subsidiary, with a conflict of interest.

Market Disruption Events and Adjustments – The payments on the Notes are subject to adjustment as described in this pricing supplement and 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—Market Disruption Events” in the product prospectus supplement.

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OTHER TERMS OF YOUR NOTES

Certain Reorganization Events

If an issuer of a Reference Stock undergoes a Reorganization Event, as described on PS-16 of the product prospectus supplement dated January 14, 2016 (for example, if it merges with another entity and is not the surviving company), that Reference Stock may be removed from the Basket by the Calculation Agent following the effective date of the Reorganization Event, with the Component Weights of the remaining Reference Stocks increasing proportionately to reflect the relevant weightings of those remaining Reference Stocks at the time of the Reorganization Event.

In order to accomplish the foregoing, the Calculation Agent will determine the value of the shares of the Reference Stock in the Basket that is subject to the Reorganization Event, and will add to the Basket a number of shares of each other Reference Stock that is proportionate to the relative weightings of the Reference Stocks at the time of the Reorganization Event.

In the event of a Reorganization Event, The Calculation Agent will have sole discretion in determining the distribution of shares. In order to determine the value of the Reference Stock that is subject to the Reorganization Event, the Calculation Agent may use its closing price on the last trading day on which it trades prior to the effective date of the relevant transaction, the terms of the transaction that is the subject of the Reorganization Event, or such other commercially reasonable method as it may determine to be appropriate at that time. The weightings of the remaining Reference Stocks at that time, and the number of shares of each to be added to the Basket, will be determined by the Calculation Agent based upon the percentage of the Basket value that they constitute, from their respective closing prices.

Additional Anti-Dilution Adjustments

The Calculation Agent will adjust the number of shares of each Reference Stock in the Basket, as it determines may be needed to reflect stock splits, reverse stock splits, stock dividends, and other corporate transactions, which are discussed in the section of the product supplement, “General Terms of the Notes—Anti-Dilution Adjustments Relating to Equity Securities.” For example, if a Reference Stock is subject to a 2-for-1 stock split, the Calculation Agent may determine that, upon the applicable effective date, each one share of that Reference Stock in the Basket shall be deemed to thereafter to represent two shares.

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INFORMATION REGARDING THE ISSUERS OF THE REFERENCE STOCKS

The issuer of each Reference Stock is registered under the Securities Exchange Act of 1934, as amended (“Exchange Act”). Companies with securities registered under the Exchange Act are required to periodically file financial and other information required by the Securities and Exchange Commission (“SEC”). 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 issuers of the Reference Stocks with the SEC electronically is available to the public over the Internet at the SEC’s website at <http://www.sec.gov>.

The Selection of the Basket

The Equity Research Department at RBCCM regularly publishes research. The Reference Stocks were selected from among the companies covered by the Equity Research Department and that are rated as “Top Picks.” A “Top Pick” represents an RBCCM analyst's best idea in the sector, which is expected to provide significant absolute total return over 12 months with a favorable risk-reward ratio. However, we note that the selection of the Top Picks are only research views based on information available up to March 1, 2017. There is no assurance that any particular company will be successful, or that the investment thesis underlying these research views will come to pass. Moreover, the business, results of operations, and prospects of these companies and the growth and health of each issuer of the Reference Stocks are subject to conditions outside of the control of the Equity Research Department, such as general economic conditions.

Additional information regarding RBCCM research analyst ratings is available at <https://www.rbccm.com/equityresearch/cid-203939.html>. Information on that website is not included or incorporated by reference in this document. A rating is subject to downward revision at any time, and a broker-dealer may cease to cover a particular security at any time, including during the term of the Notes.

Neither we nor our affiliates makes any representation as to the future performance of any Reference Stock or the Basket.

Description of the Reference Stock Issuers

The following information regarding each issuer of the Reference Stocks is derived from publicly available information and we have not independently verified it.

Air Lease Corporation is an aircraft leasing company. The company is principally engaged in purchasing commercial aircraft and leasing to airlines in regions that include Asia, the Pacific Rim, Latin America, the Middle East and Eastern Europe. Its common stock trades on the New York Stock Exchange (the “NYSE”) under the symbol “AL.”

Amphenol Corporation designs, manufactures, and markets electrical, electronic and fiber optic connectors, interconnect systems, and coaxial and flat-ribbon cable. The company's products are used in a variety of industries, including telephone, wireless, and data communications systems, cable television systems, and commercial and military aerospace electronics. Its common stock trades on the NYSE under the symbol “APH.”

Aramark provides food and facilities management services. The company offers uniform, refreshments, work apparel, and cleanroom services to healthcare institutions, universities, school districts, stadiums, and businesses. Its common stock trades on the NYSE under the symbol “ARMK.”

Broadcom Limited designs, develops, and supplies semiconductors and integrated circuits. The company offers products such as broadband carrier access, cables, switches, network processors, and wireless connectors. Its class A common stock trades on the NASDAQ Global Select Market under the symbol “AVGO.”

Boston Properties, Inc. is a real estate investment trust. The company owns, manages, and develops office properties in the United States. Its common stock trades on the NYSE under the symbol “BXP.”

Discover Financial Services is a credit card issuer and electronic payment services company. The company issues credit cards and offers student and personal loans, as well as savings products such as certificates of deposit and

money market accounts and operates an automated teller machine/debit network. Its common stock trades on the NYSE under the symbol “DFS.”

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Direct Investment Notes

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Dollar Tree, Inc. operates a discount variety store chain in the United States. The company sells an assortment of everyday general merchandise at the \$1.00 price point. Its common stock trades on the NASDAQ Global Select Market under the symbol "DLTR."

The Dow Chemical Company is a diversified chemical company that provides chemical, plastic, and agricultural products and services to various essential consumer markets. The company serves customers in countries around the world in markets such as food, transportation, health and medicine, personal care, and construction. Its common stock trades on the NYSE under the symbol "DOW."

The Interpublic Group of Companies, Inc. is an organization of advertising agencies and marketing service companies. The company operates in the sectors of advertising, independent media buying, direct marketing, healthcare communications, interactive consulting services, marketing research, promotions, experiential marketing, public relations, and sports marketing. Its common stock trades on the NYSE under the symbol "IPG."

Louisiana-Pacific Corporation manufactures building materials and engineered wood products. The company's products are used by homebuilders and light commercial builders. The company's products include oriented strand board sheathing, flooring, radiant barrier panels, siding and trim, I-joists, and laminated veneer lumber. Its common stock trades on the NYSE under the symbol "LPX."

Marathon Petroleum Corporation refines, transports, and markets petroleum products. The company sells its products to resellers and consumers in the mid-west, gulf coast, and southeast United States. Its common stock trades on the NYSE under the symbol "MPC."

Microsemi Corporation offers a portfolio of semiconductor solutions for communications, defense, aerospace, and industrial markets. Its common stock trades on the NASDAQ Global Market under the symbol "MSCC."

ServiceNow, Inc. provides enterprise information technology (IT) management software. The company designs, develops, and produces prepackaged computer software, cloud services, and IT service management platform. Its common stock trades on the NYSE under the symbol "NOW."

Newell Brands Inc. manufactures and markets branded consumer products which are sold through a variety of retail and wholesale distribution channels. The company's products include housewares, juvenile products, home furnishings, office products, tools and hardware, and hair accessories. Its common stock trades on the NYSE under the symbol "NWL."

The PNC Financial Services Group, Inc. is a diversified financial services organization. The company provides regional banking, wholesale banking, and asset management services nationally and in the company's primary regional markets. Its common stock trades on the NYSE under the symbol "PNC."

Whirlpool Corporation manufactures and markets major home appliances. The company's principal products include laundry appliances, refrigeration and room air conditioning equipment, cooking appliances, dishwashers, and mixers and other small household appliances. Its common stock trades on the NYSE under the symbol "WHR."

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Additional Information

Please note that the selection of the Reference Stocks was based only on research views, based on information that was available through March 1, 2017. There is no assurance that any particular company will be successful, or that the investment thesis underlying these research views will come to pass. Moreover, the business, results of operations, and prospects of these companies and the growth and health of each issuer of the Reference Stocks are subject to conditions outside of the control of the Equity Research Department, such as general economic conditions. Additional information regarding RBCCM research analyst ratings is available at <https://www.rbccm.com/equityresearch/cid-203939.html>. Information on that website is not included or incorporated by reference in this document. A rating is subject to downward revision at any time, and a broker-dealer may cease to cover a particular security at any time, including during the term of the Notes. Neither we nor our affiliates make any representation as to the future performance of any Reference Stock or the Basket.

Hypothetical Performance of the Basket

While actual historical information on the Basket did not exist before the Pricing Date, the following graph sets forth the hypothetical daily performance of the Basket from December 12, 2013 (the date on which the Reference Stock with the most limited trading history, Aramark, began trading) through March 28, 2017. The graph is based upon actual daily historical closing prices of the Reference Stocks and a hypothetical basket level of 100.00 as of December 12, 2013. This hypothetical data on the Basket is not necessarily indicative of the future performance of the Basket or what the value of the Notes may be. Any hypothetical upward or downward trend in the level of the Basket shown below is not an indication that the level of the Basket is more or less likely to increase or decrease at any time over the term of the Notes.

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Historical Information

The graphs below set forth the recent historical performance of each of the Reference Stocks. In addition, below each graph is a table setting forth the intra-day high, intra-day low and period-end Closing Prices of each Reference Stock. The information provided in each table is for the four calendar quarters of 2011, 2012, 2013, 2014, 2015 and 2016 and the period from January 1, 2017 to March 28, 2017.

We obtained the information regarding the historical performance of the Reference Stocks in the graphs and tables below from Bloomberg Financial Markets.

We have not independently verified the accuracy or completeness of the information obtained from Bloomberg Financial Markets. The historical performance of the Reference Stocks should not be taken as an indication of their future performance or what the value of the Notes may be, and no assurance can be given as to the price of any Reference Stock on the Valuation Date. We cannot give you assurance that the performance of any Reference Stock will not result in the loss of a portion of your investment.

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Direct Investment Notes

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Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
4/19/2011	6/30/2011	29.94	23.02	24.29
7/1/2011	9/30/2011	25.36	18.32	19.20
10/1/2011	12/31/2011	23.95	17.24	23.71
1/1/2012	3/31/2012	26.47	23.10	24.07
4/1/2012	6/30/2012	25.00	18.66	19.39
7/1/2012	9/30/2012	22.79	18.45	20.40
10/1/2012	12/31/2012	23.17	20.13	21.50
1/1/2013	3/31/2013	29.87	21.73	29.32
4/1/2013	6/30/2013	31.00	25.13	27.59
7/1/2013	9/30/2013	28.88	25.74	27.66
10/1/2013	12/31/2013	33.57	27.38	31.08
1/1/2014	3/31/2014	38.15	30.01	37.29
4/1/2014	6/30/2014	42.89	34.10	38.58
7/1/2014	9/30/2014	39.00	32.22	32.50
10/1/2014	12/31/2014	38.96	30.55	34.31
1/1/2015	3/31/2015	40.40	32.22	37.74
4/1/2015	6/30/2015	40.50	33.87	33.90
7/1/2015	9/30/2015	37.14	28.12	30.92
10/1/2015	12/31/2015	35.22	29.96	33.48
1/1/2016	3/31/2016	33.10	22.47	32.12
4/1/2016	6/30/2016	32.53	24.49	26.78
7/1/2016	9/30/2016	30.18	25.09	28.58
10/1/2016	12/31/2016	37.23	27.97	34.33
1/1/2017	3/28/2017	40.24	34.51	38.36

*Air Lease Corporation commenced trading on April 19, 2011 and therefore has a limited historical performance.

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

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Direct Investment Notes

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Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	23.51	18.89	21.10
4/1/2010	6/30/2010	23.92	19.20	19.64
7/1/2010	9/30/2010	24.99	19.18	24.49
10/1/2010	12/31/2010	27.04	23.69	26.45
1/1/2011	3/31/2011	29.56	25.27	27.20
4/1/2011	6/30/2011	28.67	24.71	27.00
7/1/2011	9/30/2011	27.88	20.01	20.39
10/1/2011	12/31/2011	25.26	19.49	22.70
1/1/2012	3/31/2012	30.06	22.50	29.89
4/1/2012	6/30/2012	30.92	25.53	27.46
7/1/2012	9/30/2012	31.85	25.45	29.44
10/1/2012	12/31/2012	32.63	28.71	32.35
1/1/2013	3/31/2013	37.36	32.89	37.33
4/1/2013	6/30/2013	41.69	35.05	38.97
7/1/2013	9/30/2013	42.83	37.03	38.69
10/1/2013	12/31/2013	44.73	37.09	44.59
1/1/2014	3/31/2014	46.81	42.06	45.83
4/1/2014	6/30/2014	49.38	45.15	48.17
7/1/2014	9/30/2014	52.97	47.24	49.93
10/1/2014	12/31/2014	55.66	45.27	53.81
1/1/2015	3/31/2015	60.54	51.19	58.93
4/1/2015	6/30/2015	59.61	54.95	57.97
7/1/2015	9/30/2015	58.51	47.44	50.96
10/1/2015	12/31/2015	55.68	49.01	52.23
1/1/2016	3/31/2016	58.35	44.50	57.82
4/1/2016	6/30/2016	60.17	54.94	57.33
7/1/2016	9/30/2016	65.76	55.37	64.91
10/1/2016	12/31/2016	69.19	62.63	67.20
1/1/2017	3/28/2017	71.9	66.01	71.32

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-17 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
12/12/2013	12/31/2013	26.72	20.10	26.22
1/1/2014	3/31/2014	29.98	23.04	28.92
4/1/2014	6/30/2014	29.04	25.04	25.88
7/1/2014	9/30/2014	27.96	25.62	26.30
10/1/2014	12/31/2014	31.43	25.03	31.15
1/1/2015	3/31/2015	32.70	29.63	31.63
4/1/2015	6/30/2015	32.35	30.26	30.97
7/1/2015	9/30/2015	33.78	28.09	29.64
10/1/2015	12/31/2015	35.06	29.24	32.25
1/1/2016	3/31/2016	33.46	29.18	33.12
4/1/2016	6/30/2016	34.50	31.38	33.42
7/1/2016	9/30/2016	38.29	32.89	38.03
10/1/2016	12/31/2016	38.19	32.73	35.72
1/1/2017	3/28/2017	37.76	32.87	36.82

* Aramark commenced trading on December 12, 2013 and therefore has a limited historical performance.

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-18 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	20.68	16.50	20.56
4/1/2010	6/30/2010	23.69	18.38	21.06
7/1/2010	9/30/2010	23.13	18.41	22.51
10/1/2010	12/30/2010	28.94	21.54	28.88
1/1/2011	3/31/2011	34.60	26.97	31.10
4/1/2011	6/30/2011	38.70	29.96	38.00
7/1/2011	9/30/2011	39.45	26.42	32.77
10/1/2011	12/31/2011	35.97	27.39	28.86
1/1/2012	3/31/2012	39.22	28.02	38.97
4/1/2012	6/30/2012	39.01	29.70	35.90
7/1/2012	9/30/2012	37.88	32.14	34.87
10/1/2012	12/31/2012	35.58	30.50	31.65
1/1/2013	3/31/2013	36.98	32.09	35.90
4/1/2013	6/30/2013	38.87	30.57	37.38
7/1/2013	9/30/2013	43.29	35.75	43.08
10/1/2013	12/31/2013	54.54	41.83	52.88
1/1/2014	3/31/2014	65.83	51.89	64.41
4/1/2014	6/30/2014	72.50	57.27	72.07
7/1/2014	9/30/2014	90.88	68.71	87.00
10/1/2014	12/31/2014	105.00	68.75	100.59
1/1/2015	3/31/2015	136.28	95.18	126.98
4/1/2015	6/30/2015	150.50	114.56	132.93
7/1/2015	9/30/2015	137.75	100.00	125.01
10/1/2015	12/31/2015	149.72	111.53	145.15
1/1/2016	3/31/2016	157.37	114.25	154.50
4/1/2016	6/30/2016	166.00	139.18	155.40
7/1/2016	9/30/2016	179.42	147.16	172.52
10/1/2016	12/31/2016	183.99	160.62	176.77
1/1/2017	3/28/2017	227.49	173.50	220.95

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-19 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	78.22	61.50	75.44
4/1/2010	6/30/2010	83.42	70.91	71.34
7/1/2010	9/30/2010	89.26	68.47	83.12
10/1/2010	12/31/2010	91.45	81.02	86.53
1/1/2011	3/31/2011	96.59	83.90	94.85
4/1/2011	6/30/2011	108.35	93.29	106.16
7/1/2011	9/30/2011	112.84	89.02	89.10
10/1/2011	12/31/2011	102.32	81.52	99.60
1/1/2012	3/31/2012	107.87	96.73	104.99
4/1/2012	6/30/2012	110.17	98.92	108.37
7/1/2012	9/30/2012	117.00	107.52	110.61
10/1/2012	12/31/2012	111.56	99.23	105.81
1/1/2013	3/31/2013	109.65	99.85	101.06
4/1/2013	6/30/2013	115.85	99.59	105.47
7/1/2013	9/30/2013	112.93	98.21	106.90
10/1/2013	12/31/2013	109.83	98.04	100.37
1/1/2014	3/31/2014	115.20	99.55	114.53
4/1/2014	6/30/2014	122.40	113.62	118.18
7/1/2014	9/30/2014	124.04	112.75	115.76
10/1/2014	12/31/2014	137.15	115.06	128.69
1/1/2015	3/31/2015	146.07	129.29	140.48
4/1/2015	6/30/2015	143.09	120.44	121.04
7/1/2015	9/30/2015	127.15	94.91	118.40
10/1/2015	12/31/2015	130.68	116.64	127.54
1/1/2016	3/31/2016	127.77	107.28	127.08
4/1/2016	6/30/2016	133.59	123.45	131.90
7/1/2016	9/30/2016	144.02	129.49	136.29
10/1/2016	12/31/2016	135.47	113.69	125.78
1/1/2017	3/28/2017	140.09	125.99	131.32

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-20 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	15.78	12.58	14.90
4/1/2010	6/30/2010	16.59	12.11	13.98
7/1/2010	9/30/2010	16.98	13.33	16.68
10/1/2010	12/31/2010	19.45	16.12	18.17
1/1/2011	3/31/2011	24.99	18.31	24.12
4/1/2011	6/30/2011	26.95	22.33	26.75
7/1/2011	9/30/2011	27.92	20.51	22.94
10/1/2011	12/31/2011	25.95	21.44	24.00
1/1/2012	3/31/2012	34.43	23.75	33.34
4/1/2012	6/30/2012	34.75	30.48	34.58
7/1/2012	9/30/2012	40.28	33.79	39.73
10/1/2012	12/31/2012	42.08	37.36	38.55
1/1/2013	3/31/2013	45.38	37.24	44.84
4/1/2013	6/30/2013	49.71	42.12	47.64
7/1/2013	9/30/2013	53.36	46.93	50.54
10/1/2013	12/31/2013	56.20	48.40	55.95
1/1/2014	3/31/2014	60.00	51.63	58.19
4/1/2014	6/30/2014	62.62	54.35	61.98
7/1/2014	9/30/2014	65.98	59.00	64.39
10/1/2014	12/31/2014	66.75	60.15	65.49
1/1/2015	3/31/2015	66.02	54.02	56.35
4/1/2015	6/30/2015	60.57	56.17	57.62
7/1/2015	9/30/2015	59.88	50.36	51.99
10/1/2015	12/31/2015	58.08	50.20	53.62
1/1/2016	3/31/2016	53.09	42.86	50.92
4/1/2016	6/30/2016	58.10	46.37	53.59
7/1/2016	9/30/2016	60.29	51.67	56.55
10/1/2016	12/31/2016	73.62	53.91	72.09
1/1/2017	3/28/2017	74.33	65.60	67.89

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-21 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	20.09	15.66	19.74
4/1/2010	6/30/2010	21.49	19.20	20.82
7/1/2010	9/30/2010	25.05	20.30	24.38
10/1/2010	12/31/2010	29.00	23.98	28.20
1/1/2011	3/31/2011	28.50	24.26	27.76
4/1/2011	6/30/2011	34.00	27.61	33.31
7/1/2011	9/30/2011	39.68	30.00	37.57
10/1/2011	12/31/2011	42.26	36.04	41.56
1/1/2012	3/31/2012	48.10	40.79	47.25
4/1/2012	6/30/2012	56.82	46.35	53.80
7/1/2012	9/30/2012	54.72	38.40	48.29
10/1/2012	12/31/2012	48.68	37.12	40.56
1/1/2013	3/31/2013	48.61	37.70	48.43
4/1/2013	6/30/2013	51.29	45.57	50.84
7/1/2013	9/30/2013	58.69	50.33	57.16
10/1/2013	12/31/2013	60.19	54.67	56.42
1/1/2014	3/31/2014	57.41	49.59	52.18
4/1/2014	6/30/2014	57.22	49.69	54.46
7/1/2014	9/30/2014	59.84	53.17	56.07
10/1/2014	12/31/2014	71.53	53.70	70.38
1/1/2015	3/31/2015	84.22	65.20	81.15
4/1/2015	6/30/2015	84.00	74.51	78.99
7/1/2015	9/30/2015	82.68	64.95	66.66
10/1/2015	12/31/2015	80.04	60.31	77.22
1/1/2016	3/31/2016	83.59	72.52	82.46
4/1/2016	6/30/2016	94.85	73.02	94.24
7/1/2016	9/30/2016	99.93	77.28	78.93
10/1/2016	12/31/2016	91.41	72.55	77.18
1/1/2017	3/28/2017	82.25	72.91	76.55

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-22 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	31.66	25.57	29.57
4/1/2010	6/30/2010	32.05	23.40	23.72
7/1/2010	9/30/2010	28.50	22.42	27.46
10/1/2010	12/31/2010	34.50	27.38	34.25
1/1/2011	3/31/2011	39.00	34.12	37.75
4/1/2011	6/30/2011	42.23	33.97	36.00
7/1/2011	9/30/2011	37.30	22.46	22.46
10/1/2011	12/31/2011	29.56	20.61	28.76
1/1/2012	3/31/2012	36.00	29.27	34.64
4/1/2012	6/30/2012	36.08	29.27	31.50
7/1/2012	9/30/2012	32.48	28.45	28.96
10/1/2012	12/31/2012	32.95	27.45	32.33
1/1/2013	3/31/2013	34.83	30.63	31.84
4/1/2013	6/30/2013	36.00	29.81	32.17
7/1/2013	9/30/2013	41.08	32.05	38.40
10/1/2013	12/31/2013	44.99	38.04	44.40
1/1/2014	3/31/2014	50.96	41.82	48.59
4/1/2014	6/30/2014	53.35	46.56	51.46
7/1/2014	9/30/2014	54.97	50.34	52.44
10/1/2014	12/31/2014	53.80	41.45	45.61
1/1/2015	3/31/2015	50.22	41.95	47.98
4/1/2015	6/30/2015	53.77	47.21	51.17
7/1/2015	9/30/2015	53.20	35.11	42.40
10/1/2015	12/31/2015	57.10	42.15	51.48
1/1/2016	3/31/2016	52.23	40.26	50.86
4/1/2016	6/30/2016	53.98	47.75	49.71
7/1/2016	9/30/2016	54.59	47.51	51.83
10/1/2016	12/31/2016	59.33	51.60	57.22
1/1/2017	3/28/2017	65.42	56.53	65.00

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-23 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	8.87	6.21	8.32
4/1/2010	6/30/2010	12.25	7.10	7.13
7/1/2010	9/30/2010	10.30	6.86	10.03
10/1/2010	12/31/2010	11.24	9.86	10.63
1/1/2011	3/31/2011	13.35	10.36	12.57
4/1/2011	6/30/2011	12.80	10.98	12.50
7/1/2011	9/30/2011	12.91	6.97	7.20
10/1/2011	12/31/2011	10.50	6.73	9.73
1/1/2012	3/31/2012	12.00	9.94	11.41
4/1/2012	6/30/2012	12.17	9.88	10.85
7/1/2012	9/30/2012	12.05	9.04	11.12
10/1/2012	12/31/2012	11.77	9.38	11.02
1/1/2013	3/31/2013	13.48	11.26	13.03
4/1/2013	6/30/2013	14.99	12.76	14.55
7/1/2013	9/30/2013	17.55	14.59	17.18
10/1/2013	12/31/2013	17.81	15.28	17.70
1/1/2014	3/31/2014	18.00	15.90	17.14
4/1/2014	6/30/2014	19.78	16.14	19.51
7/1/2014	9/30/2014	20.64	17.89	18.32
10/1/2014	12/31/2014	21.16	16.37	20.77
1/1/2015	3/31/2015	22.69	19.00	22.12
4/1/2015	6/30/2015	22.24	19.08	19.27
7/1/2015	9/30/2015	21.44	18.16	19.13
10/1/2015	12/31/2015	23.80	18.81	23.28
1/1/2016	3/31/2016	23.39	19.79	22.95
4/1/2016	6/30/2016	24.82	20.82	23.10
7/1/2016	9/30/2016	24.34	21.80	22.35
10/1/2016	12/31/2016	24.73	21.67	23.41
1/1/2017	3/28/2017	25.00	22.87	24.50

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-24 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	9.20	6.80	9.05
4/1/2010	6/30/2010	13.44	6.48	6.69
7/1/2010	9/30/2010	8.46	6.25	7.57
10/1/2010	12/31/2010	10.09	7.40	9.65
1/1/2011	3/31/2011	11.63	9.19	10.50
4/1/2011	6/30/2011	10.91	7.16	8.14
7/1/2011	9/30/2011	8.56	5.07	5.10
10/1/2011	12/31/2011	8.25	4.41	8.07
1/1/2012	3/31/2012	10.18	7.66	9.35
4/1/2012	6/30/2012	11.00	7.81	10.88
7/1/2012	9/30/2012	15.50	9.87	12.50
10/1/2012	12/31/2012	19.34	12.50	19.32
1/1/2013	3/31/2013	22.55	18.93	21.60
4/1/2013	6/30/2013	21.70	14.51	14.79
7/1/2013	9/30/2013	18.50	14.73	17.59
10/1/2013	12/31/2013	18.96	15.40	18.51
1/1/2014	3/31/2014	18.88	15.85	16.87
4/1/2014	6/30/2014	17.55	13.73	15.02
7/1/2014	9/30/2014	15.45	12.71	13.59
10/1/2014	12/31/2014	17.66	12.46	16.56
1/1/2015	3/31/2015	17.76	15.22	16.51
4/1/2015	6/30/2015	18.64	14.88	17.03
7/1/2015	9/30/2015	17.54	13.94	14.24
10/1/2015	12/31/2015	18.97	14.04	18.01
1/1/2016	3/31/2016	18.09	13.31	17.12
4/1/2016	6/30/2016	18.77	15.05	17.35
7/1/2016	9/30/2016	20.97	17.19	18.83
10/1/2016	12/31/2016	21.16	17.08	18.93
1/1/2017	3/28/2017	24.94	18.69	24.06

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-25 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
7/1/2011	9/30/2011	23.72	13.18	13.53
10/1/2011	12/31/2011	19.78	13.31	16.65
1/1/2012	3/31/2012	22.71	15.12	21.68
4/1/2012	6/30/2012	22.68	16.83	22.46
7/1/2012	9/30/2012	28.11	21.30	27.30
10/1/2012	12/31/2012	31.72	26.18	31.50
1/1/2013	3/31/2013	46.37	30.02	44.80
4/1/2013	6/30/2013	45.27	34.66	35.53
7/1/2013	9/30/2013	38.29	31.26	32.16
10/1/2013	12/31/2013	45.98	30.66	45.87
1/1/2014	3/31/2014	47.44	40.34	43.52
4/1/2014	6/30/2014	48.85	38.97	39.04
7/1/2014	9/30/2014	46.45	37.84	42.34
10/1/2014	12/31/2014	48.97	37.32	45.13
1/1/2015	3/31/2015	54.16	37.62	51.20
4/1/2015	6/30/2015	53.07	48.41	52.31
7/1/2015	9/30/2015	60.38	43.42	46.33
10/1/2015	12/31/2015	59.99	46.03	51.84
1/1/2016	3/31/2016	52.83	29.24	37.18
4/1/2016	6/30/2016	43.26	32.02	37.96
7/1/2016	9/30/2016	44.56	35.16	40.59
10/1/2016	12/31/2016	51.15	40.01	50.35
1/1/2017	3/28/2017	54.58	46.88	49.03

* Marathon Petroleum Corporation commenced trading on July 1, 2011 and therefore has a limited historical performance.

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

Explanation of Responses:

P-26 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	18.50	14.67	17.34
4/1/2010	6/30/2010	18.00	14.18	14.63
7/1/2010	9/30/2010	17.65	13.83	17.12
10/1/2010	12/31/2010	24.68	16.92	22.95
1/1/2011	3/31/2011	24.96	19.35	20.71
4/1/2011	6/30/2011	23.81	19.55	20.50
7/1/2011	9/30/2011	22.01	14.49	15.98
10/1/2011	12/31/2011	19.34	14.82	16.75
1/1/2012	3/31/2012	22.30	16.59	21.44
4/1/2012	6/30/2012	22.02	16.63	18.49
7/1/2012	9/30/2012	21.84	16.57	20.07
10/1/2012	12/31/2012	21.12	17.12	21.04
1/1/2013	3/31/2013	23.28	19.00	23.17
4/1/2013	6/30/2013	23.24	18.96	22.75
7/1/2013	9/30/2013	26.72	22.57	24.25
10/1/2013	12/31/2013	26.71	20.22	24.95
1/1/2014	3/31/2014	26.65	22.16	25.03
4/1/2014	6/30/2014	27.91	22.21	26.76
7/1/2014	9/30/2014	27.58	23.55	25.41
10/1/2014	12/31/2014	29.26	20.61	28.38
1/1/2015	3/31/2015	37.41	25.36	35.40
4/1/2015	6/30/2015	37.18	32.05	34.95
7/1/2015	9/30/2015	35.15	28.24	32.82
10/1/2015	12/31/2015	39.56	31.36	32.59
1/1/2016	3/31/2016	39.16	28.91	38.31
4/1/2016	6/30/2016	39.16	29.68	32.68

7/1/2016	9/30/2016	42.19	30.68	41.98
10/1/2016	12/31/2016	57.32	37.11	53.97
1/1/2017	3/28/2017	57.97	50.36	51.88

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

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Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
6/29/2012	6/30/2012	24.75	22.83	24.60
7/1/2012	9/30/2012	41.77	22.62	38.68
10/1/2012	12/31/2012	38.14	28.15	30.03
1/1/2013	3/31/2013	38.22	25.54	36.20
4/1/2013	6/30/2013	43.99	33.95	40.39
7/1/2013	9/30/2013	53.11	39.83	51.95
10/1/2013	12/31/2013	58.41	47.37	56.01
1/1/2014	3/31/2014	71.80	54.36	59.92
4/1/2014	6/30/2014	63.96	44.17	61.96
7/1/2014	9/30/2014	64.98	54.11	58.78
10/1/2014	12/31/2014	70.90	54.05	67.85
1/1/2015	3/31/2015	81.24	62.55	78.78
4/1/2015	6/30/2015	83.52	70.32	74.31
7/1/2015	9/30/2015	81.21	64.29	69.45
10/1/2015	12/31/2015	91.28	67.65	86.56
1/1/2016	3/31/2016	85.67	46.00	61.18
4/1/2016	6/30/2016	77.76	55.36	66.40
7/1/2016	9/30/2016	80.31	64.31	79.15
10/1/2016	12/31/2016	89.79	72.80	74.34
1/1/2017	3/28/2017	94.72	74.63	86.00

* ServiceNow, Inc. commenced trading on June 29, 2012 and therefore has a limited historical performance.

PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-28 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	15.88	13.11	15.20
4/1/2010	6/30/2010	17.96	14.55	14.64
7/1/2010	9/30/2010	18.17	14.14	17.81
10/1/2010	12/31/2010	18.48	16.71	18.02
1/1/2011	3/31/2011	20.38	17.57	19.13
4/1/2011	6/30/2011	19.81	14.14	15.78
7/1/2011	9/30/2011	16.27	11.31	11.87
10/1/2011	12/31/2011	16.53	10.87	16.15
1/1/2012	3/31/2012	19.49	15.93	17.81
4/1/2012	6/30/2012	19.12	16.63	18.14
7/1/2012	9/30/2012	19.74	16.67	19.09
10/1/2012	12/31/2012	22.49	18.80	22.27
1/1/2013	3/31/2013	26.11	21.72	26.10
4/1/2013	6/30/2013	28.47	24.90	26.25
7/1/2013	9/30/2013	27.97	24.32	27.50
10/1/2013	12/31/2013	32.54	26.29	32.41
1/1/2014	3/31/2014	32.54	29.14	29.90
4/1/2014	6/30/2014	31.61	28.27	30.99
7/1/2014	9/30/2014	35.25	30.85	34.41
10/1/2014	12/31/2014	38.73	31.14	38.09
1/1/2015	3/31/2015	40.37	36.33	39.07
4/1/2015	6/30/2015	42.00	37.95	41.11
7/1/2015	9/30/2015	44.51	38.18	39.71
10/1/2015	12/31/2015	50.90	39.39	44.08
1/1/2016	3/31/2016	45.57	33.26	44.29
4/1/2016	6/30/2016	49.49	37.96	48.57
7/1/2016	9/30/2016	55.45	47.07	52.66

10/1/2016	12/31/2016	53.22	44.24	44.65
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1/1/2017	3/28/2017	50.17	43.43	47.70
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PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

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Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	61.80	50.46	59.70
4/1/2010	6/30/2010	70.45	56.30	56.50
7/1/2010	9/30/2010	62.99	49.43	51.91
10/1/2010	12/31/2010	61.79	50.69	60.88
1/1/2011	3/31/2011	65.19	59.67	62.99
4/1/2011	6/30/2011	64.37	55.56	59.61
7/1/2011	9/30/2011	61.21	42.70	48.19
10/1/2011	12/31/2011	58.70	44.74	57.67
1/1/2012	3/31/2012	64.79	56.88	64.49
4/1/2012	6/30/2012	67.89	55.60	61.11
7/1/2012	9/30/2012	67.04	56.76	63.10
10/1/2012	12/31/2012	65.73	53.36	58.31
1/1/2013	3/31/2013	66.94	58.96	66.50
4/1/2013	6/30/2013	74.19	63.69	72.92
7/1/2013	9/30/2013	77.93	71.48	72.45
10/1/2013	12/31/2013	78.36	70.63	77.58
1/1/2014	3/31/2014	87.80	76.06	87.00
4/1/2014	6/30/2014	89.85	79.80	89.05
7/1/2014	9/30/2014	90.00	80.43	85.58
10/1/2014	12/31/2014	93.45	76.69	91.23
1/1/2015	3/31/2015	96.71	81.84	93.24
4/1/2015	6/30/2015	99.61	90.42	95.65
7/1/2015	9/30/2015	100.52	82.77	89.20
10/1/2015	12/31/2015	97.50	84.93	95.31
1/1/2016	3/31/2016	94.26	77.67	84.57
4/1/2016	6/30/2016	90.85	77.40	81.39
7/1/2016	9/30/2016	91.39	77.86	90.09

10/1/2016	12/31/2016	118.57	87.34	116.96
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1/1/2017	3/28/2017	131.80	113.70	120.27
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PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

P-30 RBC Capital Markets, LLC

Direct Investment Notes

Linked to the March 2017 RBC Capital Markets

U.S. Equity Top Picks List due April 9, 2018

Period-Start Date	Period-End Date	High Intra-Day Price of the Reference Stock in (\$)	Low Intra-Day Price of the Reference Stock in (\$)	Period-End Closing Price of the Reference Stock in (\$)
1/1/2010	3/31/2010	91.11	73.30	87.25
4/1/2010	6/30/2010	118.44	86.86	87.82
7/1/2010	9/30/2010	96.90	71.00	80.96
10/1/2010	12/31/2010	91.28	72.95	89.82
1/1/2011	3/31/2011	92.28	79.15	85.36
4/1/2011	6/30/2011	92.00	72.48	81.32
7/1/2011	9/30/2011	82.99	47.35	49.91
10/1/2011	12/31/2011	62.00	45.22	47.45
1/1/2012	3/31/2012	79.39	47.72	76.86
4/1/2012	6/30/2012	77.04	54.08	61.16
7/1/2012	9/30/2012	86.47	59.85	82.91
10/1/2012	12/31/2012	104.21	82.35	101.75
1/1/2013	3/31/2013	120.00	101.74	118.46
4/1/2013	6/30/2013	134.09	107.88	114.36
7/1/2013	9/30/2013	151.84	111.70	146.44
10/1/2013	12/31/2013	159.22	129.22	156.86
1/1/2014	3/31/2014	160.01	124.39	149.46
4/1/2014	6/30/2014	156.71	136.64	139.22
7/1/2014	9/30/2014	156.13	135.37	145.65
10/1/2014	12/31/2014	196.71	139.85	193.74
1/1/2015	3/31/2015	217.11	186.14	202.06
4/1/2015	6/30/2015	202.50	172.85	173.05
7/1/2015	9/30/2015	186.82	143.75	147.26
10/1/2015	12/31/2015	167.72	140.50	146.87
1/1/2016	3/31/2016	180.59	123.60	180.34
4/1/2016	6/30/2016	193.59	152.19	166.64
7/1/2016	9/30/2016	194.10	159.55	162.16
10/1/2016	12/31/2016	185.24	145.91	181.77

Explanation of Responses:

1/1/2017	3/28/2017	191.90	168.14	169.85
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PAST PERFORMANCE IS NOT INDICATIVE OF FUTURE RESULTS.

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Direct Investment Notes

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SUPPLEMENTAL PLAN OF DISTRIBUTION (CONFLICTS OF INTEREST)

Delivery of the Notes will be made against payment for the Notes on March 31, 2017, 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 dated January 8, 2016. For additional information as to the relationship between us and RBCCM, please see the section “Plan of Distribution - Conflicts of Interest” in the prospectus dated January 8, 2016.

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

STRUCTURING THE NOTES

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

In order to satisfy our payment obligations under the Notes, we may choose to enter into certain hedging arrangements (which may include call options, put options, other derivatives or trading in shares of any Reference Stock) on the issue date with RBCCM, one of our other subsidiaries or any third-party hedge provider. The terms of these hedging arrangements take into account a number of factors, including our creditworthiness, interest rate movements, the volatility of the Reference Stocks, and the tenor of the Notes. The economic terms of the Notes and their initial estimated value depend in part on the terms of these hedging arrangements.

The lower implied borrowing rate is a factor that reduces the economic terms of the Notes to you. The initial offering price of the Notes also reflects the underwriting commission and our estimated hedging costs. These factors resulted in the initial estimated value for the Notes on the Pricing Date being less than their public offering price. See “Selected Risk Considerations—The Initial Estimated Value of the Notes Is Less than the Price to the Public” above.

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Direct Investment Notes

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SUPPLEMENTAL DISCUSSION OF U.S. FEDERAL INCOME TAX CONSEQUENCES

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

The following section supplements the discussion of U.S. federal income taxation in the accompanying prospectus and prospectus supplement and it supersedes the discussion of U.S. federal income taxation in the accompany product prospectus supplement. It applies only to those holders who are not excluded from the discussion of U.S. federal income taxation in the accompanying prospectus. This discussion applies only to holders that will purchase the Notes upon original issuance and will hold the Notes as capital assets for U.S. federal income tax purposes. In addition, the discussion below assumes that an investor in the Notes will be subject to a significant risk that it will lose a significant amount of its investment in the Notes.

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

NO STATUTORY, JUDICIAL OR ADMINISTRATIVE AUTHORITY DIRECTLY DISCUSSES HOW THE NOTES SHOULD BE TREATED FOR U.S. FEDERAL INCOME TAX PURPOSES. AS A RESULT, THE U.S. FEDERAL INCOME TAX CONSEQUENCES OF AN INVESTMENT IN THE NOTES ARE UNCERTAIN. BECAUSE OF THE UNCERTAINTY, YOU SHOULD CONSULT YOUR TAX ADVISOR IN DETERMINING THE U.S. FEDERAL INCOME TAX AND OTHER TAX CONSEQUENCES OF YOUR INVESTMENT IN THE NOTES, INCLUDING THE APPLICATION OF STATE, LOCAL OR OTHER TAX LAWS AND THE POSSIBLE EFFECTS OF CHANGES IN FEDERAL OR OTHER TAX LAWS.

We will not attempt to ascertain whether any of the entities whose stock is included in the Basket would be treated as a “passive foreign investment company” within the meaning of Section 1297 of the Code, or a “U.S. real property holding corporation,” within the meaning of Section 897 of the Code. If any of the entities whose stock is included in the Basket were so treated, certain adverse U.S. federal income tax consequences could possibly apply to a holder. You should refer to any available information filed with the SEC and other authorities by the entities whose stock is included in the Basket and consult your tax advisor regarding the possible consequences to you in this regard, if any. In the opinion of our counsel, Morrison & Foerster LLP, it would generally be reasonable to treat a note with terms described in this document as a pre-paid cash-settled contingent income-bearing derivative contract linked to the Basket for U.S. federal income tax purposes, and the terms of the Notes require a holder and us (in the absence of a change in law or an administrative or judicial ruling to the contrary) to treat the Notes for all tax purposes in accordance with such characterization. In addition, we intend to treat the contingent coupons as U.S. source income for U.S. federal income tax purposes. The following discussion assumes that the treatment described in this paragraph is proper and will be respected.

Although the U.S. federal income tax treatment of the contingent quarterly coupon is uncertain, we intend to take the position, and the following discussion assumes, that such contingent quarterly coupon (including any contingent quarterly coupon paid on or with respect to the maturity date) constitutes taxable ordinary income to a U.S. holder at the time received or accrued in accordance with the holder’s regular method of tax accounting. If the Notes are treated as described above, a U.S. holder should generally recognize capital gain or loss upon the sale or maturity of the Notes in an amount equal to the difference between the cash amount a holder receives at such time (other than amounts properly attributable to any contingent quarterly coupon, which would be taxed, as described above, as ordinary

income) and the holder's tax basis in the Notes. In general, a U.S. holder's tax basis in the Notes will be equal to the price the holder paid for the Notes. Capital gain recognized by an individual U.S. holder is generally taxed at preferential rates where the property is held for more than one year and is generally

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taxed at ordinary income rates where the property is held for one year or less. The ordinary income treatment of the contingent quarterly coupons, in conjunction with the capital loss treatment of any loss recognized upon the sale, exchange or maturity of the Notes, could result in adverse tax consequences to a holder because the deductibility of capital losses is subject to limitations.

While the matter is not entirely clear, because one of the Reference Stocks is a real estate investment trust, an investment in the Notes will likely, in whole or in part, be treated as a “constructive ownership transaction” to which Section 1260 of the Code applies. If Section 1260 of the Code applies, all or a portion of any long-term capital gain recognized by a U.S. holder in respect of the Notes will be recharacterized as ordinary income (the “Excess Gain”). In addition, an interest charge will also apply to any deemed underpayment of tax in respect of any Excess Gain to the extent such gain would have resulted in gross income inclusion for the U.S. holder in taxable years prior to the taxable year of the sale, exchange or maturity (assuming such income accrued at a constant rate equal to the applicable federal rate as of the date of sale, exchange or maturity). If an investment in the Notes is treated as a constructive ownership transaction, it is not clear how the net underlying long-term capital gain would be computed and to what extent any long-term capital gain of a United States holder in respect of the Notes will be recharacterized as ordinary income. Unless otherwise established by clear and convincing evidence, the net underlying long-term capital gain is treated as zero. U.S. holders should consult their tax advisors regarding the potential application of Section 1260 of the Code to an investment in the Notes.

Alternative Treatments. Alternative tax treatments of the Notes are also possible and the Internal Revenue Service might assert that a treatment other than that described above is more appropriate. For example, it is possible to treat the Notes, and the Internal Revenue Service might assert that the Notes should be treated, as a single debt instrument. Because the Notes have a term that exceeds one year, such debt instrument would be subject to the special tax rules governing contingent payment debt instruments. If the Notes are so treated, a holder would generally be required to accrue interest income over the term of the securities based upon the yield at which we would issue a non-contingent fixed-rate debt instrument with other terms and conditions similar to the Notes. In addition, any gain a holder might recognize upon the sale or maturity of the Notes would be ordinary income and any loss recognized by a holder at such time would generally be ordinary loss to the extent of interest that same holder included in income in the current or previous taxable years in respect of the Notes, and thereafter, would be capital loss.

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

The Internal Revenue Service has released a notice that may affect the taxation of holders of the Notes. According to the notice, the Internal Revenue Service and the U.S. Treasury Department are actively considering whether the holder of an instrument such as the Notes should be required to accrue ordinary income on a current basis irrespective of any contingent quarterly coupons. It is not possible to determine what guidance they will ultimately issue, if any. It is possible, however, that under such guidance, holders of the Notes will ultimately be required to accrue income currently irrespective of any contingent quarterly coupons and this could be applied on a retroactive basis. The Internal Revenue Service and the U.S. Treasury Department are also considering other relevant issues, including whether additional gain or loss from such instruments should be treated as ordinary or capital and whether the special “constructive ownership rules” of Section 1260 of the Code, which very generally can operate to recharacterize certain long-term capital gains as ordinary income and impose an interest charge, might be applied to such instruments. Holders are urged to consult their tax advisors concerning the significance, and the potential impact, of the above considerations. We intend to treat the Notes for U.S. federal income tax purposes in accordance with the treatment described in this document unless and until such time as the U.S. Treasury Department and Internal Revenue Service

determine that some other treatment is more appropriate.

Backup Withholding and Information Reporting. Payments made with respect to the Notes and proceeds from the sale or exchange of the Notes may be subject to a backup withholding tax unless, in general, the holder complies with certain

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procedures or is an exempt recipient. Any amounts so withheld generally will be refunded by the Internal Revenue Service or allowed as a credit against the holder's U.S. federal income tax liability, provided the holder makes a timely filing of an appropriate tax return or refund claim to the Internal Revenue Service.

Reports will be made to the Internal Revenue Service and to holders that are not excepted from the reporting requirements.

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 RBCCM 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. A non-U.S. holder is a beneficial owner of a Note that, for U.S. federal income tax purposes, is a non-resident alien individual, a foreign corporation, or a foreign estate or trust.

We will treat the contingent quarterly coupons as consisting of (i) a "dividend equivalent" payment portion and (ii) a fixed, determinable, annual, or periodical income portion, and therefore we (or the applicable withholding agent) will withhold U.S. federal income tax at a 30% rate in respect of the entire amount of the contingent quarterly coupons paid to a non-U.S. holder unless such coupons are effectively connected with the conduct by the non-U.S. holder of a trade or business in the U.S. (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.

A "dividend equivalent" payment is treated as a dividend from sources within the U.S. and such payments generally would be subject to a 30% U.S. withholding tax if paid to a non-U.S. holder. Under U.S. Treasury Department regulations, payments (including deemed payments) with respect to equity-linked instruments ("ELIs") that are "specified ELIs" may be treated as dividend equivalents if such specified ELIs reference an interest in an "underlying security," which is generally any interest in an entity taxable as a corporation for U.S. federal income tax purposes if a payment with respect to such interest could give rise to a U.S. source dividend. Although U.S. Treasury Department regulations provide that withholding on dividend equivalent payments will not apply to specified ELIs that are not delta-one instruments and that are issued before January 1, 2018, we have determined that the Notes are delta-one instruments. Although unlikely, the potential exists for dividend equivalent payments on the Notes to exceed the contingent quarterly coupons paid. If that were the case, U.S. federal income tax at a 30% rate may be withheld in respect of other payments on the Notes and a non-U.S. holder of the Notes may be liable for additional U.S. federal income tax at a 30% rate on the difference between the dividend equivalent payments and the contingent quarterly coupon. We (or the applicable paying agent) are entitled to withhold taxes on any payments treated as dividend equivalents without being required to pay any additional amounts with respect to amounts so withheld.

Except as discussed above and below, a non-U.S. holder will generally not be subject to U.S. federal income or withholding tax on any gain (not including, for the avoidance of doubt, any amounts properly attributable to any contingent quarterly coupon which would be subject to the rules discussed above) upon the sale or maturity of the Notes, provided that (i) the holder complies with any applicable certification requirements (which certification may generally be made on a Form W-8BEN or W-8BEN-E, or a substitute or successor form), (ii) the payment is not effectively connected with the conduct by the holder of a U.S. trade or business, and (iii) if the holder is a non-resident alien individual, such holder is not present in the U.S. for 183 days or more during the taxable year of the sale or maturity of the Notes. In the case of (ii) above, the holder generally would be subject to U.S. federal income tax with respect to any income or gain in the same manner as if the holder were a U.S. holder and, in the case of a holder that is a corporation, the holder may also be subject to a branch profits tax equal to 30% (or such lower rate provided by an applicable U.S. income tax treaty) of a portion of its earnings and profits for the taxable year that are effectively connected with its conduct of a trade or business in the U.S., subject to certain adjustments. Payments made to a non-U.S. holder may be subject to information reporting and to backup withholding unless the holder complies with applicable certification and identification requirements as to its foreign status.

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As discussed above, alternative characterizations of the Notes for U.S. federal income tax purposes are possible. Should an alternative characterization, by reason of change or clarification of the law, by regulation or otherwise, cause payments as to the Notes to become subject to withholding tax in addition to the withholding tax described above, we will withhold tax at the applicable statutory rate. The Internal Revenue Service has also indicated that it is considering whether income in respect of instruments such as the Notes should be subject to withholding tax. We will not be required to pay any additional amounts in respect of such withholding.

Non-U.S. holders are urged to consult with their tax advisors concerning the dividend equivalent rules discussed above and the application of any treaty benefits (including their potential right to claim a refund), foreign tax credits, and the U.S. federal income tax considerations relating to the Notes.

Foreign Account Tax Compliance Act. The Foreign Account Tax Compliance Act ("FATCA"), imposes a 30% U.S. withholding tax on certain U.S. source payments of interest (and OID), dividends, or other fixed or determinable annual or periodical gain, profits, and income, and on the gross proceeds from a disposition of property (including payments at maturity, or upon a redemption or sale) of a type which can produce U.S. source interest or dividends ("withholdable payments"), if paid to a foreign financial institution (including amounts paid to a foreign financial institution on your behalf) unless such institution enters into an agreement with the U.S. Treasury Department to collect and provide to the U.S. Treasury Department certain information regarding U.S. account holders, including certain account holders that are foreign entities with U.S. owners, with such institution or otherwise complies with FATCA. In addition, the Notes may constitute a "financial account" for these purposes and thus, be subject to information reporting requirements pursuant to FATCA. The legislation also generally imposes a withholding tax of 30% on withholdable payments made to a non-financial foreign entity, unless that entity provides the withholding agent with a certification that it does not have any substantial U.S. owners or a certification identifying the direct and indirect substantial U.S. owners of the entity.

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

VALIDITY OF THE NOTES

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

In the opinion of Morrison & Foerster LLP, when the Notes have been duly completed in accordance with the Indenture and issued and sold as contemplated by the prospectus supplement and the prospectus, the Notes will be valid, binding and

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Direct Investment Notes

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enforceable obligations of Royal Bank, entitled to the benefits of the Indenture, subject to applicable bankruptcy, insolvency and similar laws affecting creditors' rights generally, concepts of reasonableness and equitable principles of general applicability (including, without limitation, concepts of good faith, fair dealing and the lack of bad faith). This opinion is given as of the date hereof and is limited to the laws of the State of New York. This opinion is subject to customary assumptions about the Trustee's authorization, execution and delivery of the Indenture and the genuineness of signatures and to such counsel's reliance on the Bank and other sources as to certain factual matters, all as stated in the legal opinion dated January 8, 2016, which has been filed as Exhibit 5.2 to the Bank's Form 6-K dated January 8, 2016.

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