BlackRock Real Asset Equity Trust Form N-Q March 25, 2014

#### **UNITED STATES**

#### SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

### FORM N-Q

# QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number: 811-21931

Name of Fund: BlackRock Real Asset Equity Trust (BCF)

Fund Address: 100 Bellevue Parkway, Wilmington, DE 19809

Name and address of agent for service: John M. Perlowski, Chief Executive Officer, BlackRock Real Asset Equity Trust, 55 East 52nd Street,

New York, NY 10055

Registrant s telephone number, including area code: (800) 882-0052, Option 4

Date of fiscal year end: 10/31/2014

Date of reporting period: 01/31/2014

Item 1 Schedule of Investments

## Schedule of Investments January 31, 2014 (Unaudited)

# BlackRock Real Asset Equity Trust (BCF) (Percentages shown are based on Net Assets)

| Common Stocks                                               | Shares             |    | Value                   |
|-------------------------------------------------------------|--------------------|----|-------------------------|
| Chemicals 15.4%                                             | 67.900             | ¢  | 5,914,090               |
| Agrium, Inc. Air Products & Chemicals, Inc. (a)             | 88,600             | \$ |                         |
| Celanese Corp., Series A (a)                                | 89,300             |    | 9,315,404<br>4,522,152  |
| The Dow Chemical Co. (a)                                    |                    |    |                         |
| EI du Pont de Nemours & Co. (a)                             | 154,325<br>347,800 |    | 7,023,331<br>21,219,278 |
| Monsanto Co. (a)                                            | 64,500             |    | 6,872,475               |
| The Mosaic Co. (a)                                          | 19,000             |    | 848,540                 |
| Olin Corp.                                                  | 162,200            |    | 4,170,162               |
| Potash Corp. of Saskatchewan, Inc. (a)                      | 179,400            |    | 5,618,808               |
| Praxair, Inc.                                               | 159,300            |    | 19,867,896              |
| Trandit, inc.                                               | 157,500            |    | 17,007,070              |
|                                                             |                    |    | 85,372,136              |
| Containers & Packaging 2.7%                                 |                    |    |                         |
| MeadWestvaco Corp. (a)                                      | 419,800            |    | 15,142,186              |
| Energy Equipment & Services 3.3%                            |                    |    |                         |
| Cameron International Corp. (a)(b)                          | 56,000             |    | 3,358,320               |
| Halliburton Co. (a)                                         | 125,800            |    | 6,165,458               |
| Schlumberger Ltd. (a)                                       | 99,983             |    | 8,755,511               |
|                                                             |                    |    | 18,279,289              |
| Machinery 4.6%                                              |                    |    | 10,277,207              |
| Caterpillar, Inc. (a)                                       | 206,700            |    | 19,411,197              |
| Deere & Co. (a)                                             | 71,400             |    | 6,137,544               |
|                                                             |                    |    | 25,548,741              |
| Metals & Mining 33.7%                                       |                    |    |                         |
| African Rainbow Minerals Ltd.                               | 224,750            |    | 4,442,092               |
| Agnico Eagle Mines Ltd. (a)                                 | 62,550             |    | 1,944,054               |
| Alcoa, Inc. (a)                                             | 250,650            |    | 2,884,982               |
| Allegheny Technologies, Inc. (a)                            | 35,000             |    | 1,100,400               |
| Alumina Ltd. (b)                                            | 1,627,566          |    | 1,805,086               |
| Anglo American Platinum Ltd. (b)                            | 35,444             |    | 1,415,681               |
| Anglo American PLC                                          | 77,945             |    | 1,837,864               |
| AngloGold Ashanti Ltd. ADR                                  | 130,000            |    | 1,903,200               |
| Barrick Gold Corp. (a)                                      | 88,300             |    | 1,702,424               |
| BHP Billiton PLC                                            | 648,600            |    | 19,093,867              |
| Carpenter Technology Corp. Cia de Minas Buenaventura SA ADR | 36,466<br>143,900  |    | 2,119,039               |
| Detour Gold Corp. (b)                                       | 129,200            |    | 1,784,360<br>830,592    |
| Dominion Diamond Corp. (b)                                  | 126,700            |    | 1,845,184               |
| Eldorado Gold Corp.                                         | 409,900            |    | 2,605,694               |
| Eramet                                                      | 13,550             |    | 1,291,669               |
| First Quantum Minerals Ltd. (a)                             | 484,600            |    | 8,671,675               |
| Freeport-McMoRan Copper & Gold, Inc. (a)                    | 108,400            |    | 3,513,244               |
| Fresnillo PLC                                               | 475,000            |    | 5,932,403               |
| Glencore Xstrata PLC                                        | 3,512,887          |    | 18,521,578              |
| Goldcorp, Inc. (a)                                          | 216,950            |    | 5,399,886               |
| Goldcorp, Inc.                                              | 80,000             |    | 1,996,139               |
| IAMGOLD Corp.                                               | 243,500            |    | 894,200                 |
| Iluka Resources Ltd.                                        | 818,486            |    | 6,248,527               |
| Impala Platinum Holdings Ltd.                               | 370,200            |    | 3,867,382               |
| Industrias Penoles SAB de CV                                | 333,569            |    | 7,760,580               |
| Jiangxi Copper Co. Ltd., Class H                            | 1,339,500          |    | 2,410,971               |
| Common Stocks                                               | Shares             |    | Value                   |
| Metals & Mining (concluded)                                 |                    |    |                         |
| Kazakhmys PLC                                               | 268,500            | 9  | 783,511                 |
| Kinross Gold Corp.                                          | 240,900            |    | 1,103,322               |
| Lundin Mining Corp. (a)(b)                                  | 800,000            |    | 3,498,092               |
| Minsur SA                                                   | 3,846,986          |    | 2,193,995               |
| MMC Norilsk Nickel OJSC ADR                                 | 68,120             |    | 1,034,945               |
|                                                             |                    |    |                         |

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|---------------------------------------|-----------|-------------|
| Nevsun Resources Ltd.                 | 978,250   | 3,592,406   |
| New Gold, Inc. (b)                    | 378,000   | 2,168,727   |
| Newcrest Mining Ltd.                  | 314,085   | 2,590,638   |
| Newmont Mining Corp.                  | 51,550    | 1,113,480   |
| OZ Minerals Ltd.                      | 397,359   | 1,218,773   |
| Platinum Group Metals Ltd. (b)        | 888,518   | 1,045,081   |
| Randgold Resources Ltd. ADR           | 30,000    | 2,067,000   |
| Rio Tinto PLC                         | 414,104   | 22,025,529  |
| Silver Wheaton Corp.                  | 80,000    | 1,736,800   |
| Southern Copper Corp. (a)             | 68,806    | 1,925,192   |
| Teck Resources Ltd., Class B (a)      | 362,600   | 8,725,190   |
| United States Steel Corp. (a)         | 38,200    | 997,402     |
| Vale SA ADR                           | 519,000   | 7,058,400   |
| Vedanta Resources PLC                 | 432,700   | 5,719,849   |
| Western Areas Ltd.                    | 879,500   | 2,040,505   |
| Zijin Mining Group Co Ltd., Class H   | 5,225,731 | 1,110,038   |
| Zijii Willing Group Co Ltd., Class II | 3,223,731 | 1,110,036   |
|                                       |           |             |
|                                       |           | 187,571,648 |
| Oil, Gas & Consumable Fuels 31.5%     |           |             |
| Anadarko Petroleum Corp. (a)          | 102,500   | 8,270,725   |
| BG Group PLC                          | 347,000   | 5,832,352   |
| BP PLC                                | 1,400,000 | 10,971,879  |
| Cairn Energy PLC (b)                  | 620,000   | 2,198,704   |
| Caracal Energy, Inc. (b)              | 333,183   | 2,390,794   |
| Chevron Corp. (a)                     | 177,800   | 19,847,814  |
| Cimarex Energy Co. (a)                | 44,000    | 4,311,120   |
| ConocoPhillips (a)                    | 186,300   | 12,100,185  |
| CONSOL Energy, Inc. (a)               | 63,579    | 2,374,676   |
| Devon Energy Corp.                    | 42,000    | 2,487,240   |
|                                       | 59,800    | 2,510,660   |
| Enbridge, Inc. (a)                    |           |             |
| Eni SpA                               | 208,500   | 4,734,785   |
| EOG Resources, Inc. (a)               | 39,300    | 6,493,932   |
| Exxon Mobil Corp. (a)                 | 210,800   | 19,427,328  |
| Imperial Oil Ltd.                     | 52,000    | 2,126,689   |
| Kosmos Energy Ltd. (b)                | 216,570   | 2,239,334   |
| Noble Energy, Inc. (a)                | 122,000   | 7,604,260   |
| Oil Search Ltd.                       | 585,197   | 4,111,419   |
| Phillips 66 (a)                       | 49,400    | 3,610,646   |
| Range Resources Corp. (a)             | 67,500    | 5,817,825   |
| Royal Dutch Shell PLC ADR             | 315,900   | 21,828,690  |
| Southwestern Energy Co. (a)(b)        | 205,100   | 8,345,519   |
| Statoil ASA                           | 246,500   | 5,842,216   |
| Suncor Energy, Inc.                   | 119,200   | 3,913,336   |
| TransCanada Corp. (a)                 | 134,400   | 5,843,006   |
| 1 1                                   | - ,       | - , ,       |
|                                       |           | 175.005.101 |
|                                       |           | 175,235,134 |

#### Portfolio Abbreviations

To simplify the listings of portfolio holdings in the Schedule of Investments, ADR American Depositary Receipt MXN Mexican New Peso the names and descriptions of many securities have been abbreviated AUD Australian Dollar NOK Norwegian Krone according to the following list: CAD Canadian Dollar PEN Peruvian Neuvo Sol GBP British Pound USD US Dollar **HKD** Hong Kong Dollar ZAR South African Rand

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BlackRock Real Asset Equity Trust (BCF) (Percentages shown are based on Net Assets)

| Common Stocks Paper & Forest Products 4.1% Fibria Celulose SA ADR (b) International Paper Co. Mondi PLC                                                               | Shares  238,100 341,900 237,512 | Value<br>\$ 2,659,577<br>16,322,306<br>3,594,148 |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------|--------------------------------------------------|
| Real Estate Investment Trusts (REITs) 2.4% Weyerhaeuser Co. (a) Total Long-Term Investments                                                                           | 439,200                         | 22,576,031<br>13,123,296                         |
| (Cost \$504,509,588) 97.7%                                                                                                                                            |                                 | 542,848,461                                      |
|                                                                                                                                                                       |                                 |                                                  |
| Short-Term Securities BlackRock Liquidity Funds, TempFund, Institutional Class, 0.03% (c)(d) Total Short-Term Securities                                              | <b>Shares</b> 16,796,788        | <b>Value</b><br>\$ 16,796,788                    |
| BlackRock Liquidity Funds, TempFund, Institutional Class, 0.03% (c)(d)                                                                                                |                                 |                                                  |
| BlackRock Liquidity Funds, TempFund, Institutional Class, 0.03% (c)(d)  Total Short-Term Securities  (Cost \$16,796,788) 3.0%                                         |                                 | \$ 16,796,788                                    |
| BlackRock Liquidity Funds, TempFund, Institutional Class, 0.03% (c)(d) Total Short-Term Securities  (Cost \$16,796,788) 3.0% Total Investments Before Options Written |                                 | \$ 16,796,788<br>16,796,788                      |

#### Notes to Schedule of Investments

<sup>\*</sup> As of January 31, 2014, gross unrealized appreciation and gross unrealized depreciation based on cost for federal income tax purposes were as follows:

| Tax cost                                                    | \$ 602,089,870               |
|-------------------------------------------------------------|------------------------------|
| Gross unrealized appreciation Gross unrealized depreciation | \$ 7,112,730<br>(49,557,351) |
| Net unrealized depreciation                                 | \$ (42,444,621)              |

- (a) All or a portion of security has been pledged/segregated as collateral in connection with outstanding options written.
- (b) Non-income producing security.

(c) Represents the current yield as of report date.

(d) Investments in issuers considered to be an affiliate of the Trust during the period ended January 31, 2014, for purposes of Section 2(a)(3) of the Investment Company Act of 1940, as amended, were as follows:

|                                                          | Shares      |             |             |          |
|----------------------------------------------------------|-------------|-------------|-------------|----------|
|                                                          | Held at     |             | Held at     |          |
|                                                          | October 31, | Net         | January 31, |          |
| Affiliate                                                | 2013        | Activity    | 2014        | Income   |
| BlackRock Liquidity Funds, TempFund, Institutional Class | 21,163,179  | (4,366,391) | 16,796,788  | \$ 2,679 |

For Trust compliance purposes, the Trust sindustry classifications refer to any one or more of the industry sub-classifications used by one or more widely recognized market indexes or ratings group indexes, and/or as defined by the investment advisor. These definitions may not apply for purposes of this report, which may combine industry sub-classifications for reporting ease.

Foreign currency exchange contracts as of January 31, 2014 were as follows:

| Curren  | cy      |          |         |                                |            | Un   | realized   |
|---------|---------|----------|---------|--------------------------------|------------|------|------------|
|         |         | Currency |         |                                | Settlement | App  | reciation/ |
| Purchas | sed     | Sold     |         | Counterparty                   | Date       | (Dep | reciation) |
| AUD     | 418,873 | USD      | 366,728 | JPMorgan Chase Bank N.A.       | 2/03/14    | \$   | (150)      |
| USD     | 34,278  | GBP      | 20,825  | Citigroup Global Markets, Inc. | 2/03/14    |      | 44         |
| USD     | 89,911  | GBP      | 54,456  | JPMorgan Chase Bank N.A.       | 2/03/14    |      | 391        |
| USD     | 832,794 | CAD      | 934,000 | BNP Paribas S.A.               | 2/04/14    |      | (5,814)    |
| USD     | 68,957  | GBP      | 41,894  | Citigroup Global Markets, Inc. | 2/04/14    |      | 88         |
| USD     | 49,568  | HKD      | 385,000 | BNP Paribas S.A.               | 2/04/14    |      | (21)       |
| Total   |         |          |         |                                |            | \$   | (5,462)    |

### BlackRock Real Asset Equity Trust (BCF)

Exchange-traded options written as of January 31, 2014 were as follows:

|                                            |      | Str | rike   |            |           |              |
|--------------------------------------------|------|-----|--------|------------|-----------|--------------|
|                                            | Put/ |     |        | Expiration |           | Market       |
| Description                                | Call |     | ice    | Date       | Contracts | Value        |
| Caterpillar, Inc.                          | Call | USD | 91.00  | 2/07/14    | 435       | \$ (141,375) |
| Caterpillar, Inc.                          | Call | USD | 93.00  | 2/07/14    | 598       | (109,135)    |
| EOG Resources, Inc.                        | Call | USD | 170.00 | 2/07/14    | 60        | (6,570)      |
| The Mosaic Co.                             | Call | USD | 48.00  | 2/07/14    | 49        | (98)         |
| Barrick Gold Corp.                         | Call | USD | 19.50  | 2/14/14    | 310       | (16,740)     |
| Chevron Corp.                              | Call | USD | 123.00 | 2/14/14    | 100       | (550)        |
| Schlumberger Ltd.                          | Call | USD | 91.00  | 2/14/14    | 391       | (14,467)     |
| Chevron Corp.                              | Call | USD | 121.75 | 2/22/14    | 100       | (496)        |
| Halliburton Co.                            | Call | USD | 51.50  | 2/22/14    | 190       | (6,198)      |
| Agnico Eagle Mines Ltd.                    | Call | USD | 32.50  | 2/24/14    | 100       | (8,600)      |
| Alcoa, Inc.                                | Call | USD | 10.00  | 2/24/14    | 474       | (72,048)     |
| Anadarko Petroleum Corp.                   | Call | USD | 85.00  | 2/24/14    | 179       | (14,857)     |
| Cameron International Corp.                | Call | USD | 62.50  | 2/24/14    | 148       | (9,990)      |
| Caterpillar, Inc.                          | Call | USD | 92.50  | 2/24/14    | 1,034     | (294,172)    |
| Celanese Corp., Series A                   | Call | USD | 57.50  | 2/24/14    | 312       | (6,240)      |
| Chevron Corp.                              | Call | USD | 125.00 | 2/24/14    | 142       | (994)        |
| ConocoPhillips                             | Call | USD | 72.50  | 2/24/14    | 186       | (1,023)      |
| CONSOL Energy, Inc.                        | Call | USD | 41.00  | 2/24/14    | 222       | (2,220)      |
| Deere & Co.                                | Call | USD | 90.00  | 2/24/14    | 140       | (6,510)      |
| Deere & Co.                                | Call | USD | 92.50  | 2/24/14    | 145       | (2,103)      |
| EOG Resources, Inc.                        | Call | USD | 175.00 | 2/24/14    | 77        | (11,435)     |
| Exxon Mobil Corp.                          | Call | USD | 97.50  | 2/24/14    | 213       | (3,195)      |
| First Quantum Minerals Ltd.                | Call | CAD | 20.00  | 2/24/14    | 859       | (47,433)     |
| Freeport-McMoRan Copper & Gold, Inc.       | Call | USD | 37.00  | 2/24/14    | 214       | (963)        |
| Freeport-McMoRan Copper & Gold, Inc.       | Call | USD | 38.00  | 2/24/14    | 165       | (578)        |
| Lundin Mining Corp.                        | Call | CAD | 5.00   | 2/24/14    | 1,000     | (11,223)     |
| MeadWestvaco Corp.                         | Call | USD | 37.50  | 2/24/14    | 350       | (7,000)      |
| Monsanto Co.                               | Call | USD | 115.00 | 2/24/14    | 225       | (3,488)      |
| Noble Energy, Inc.                         | Call | USD | 75.00  | 2/24/14    | 195       | (1,950)      |
| Potash Corp. of Saskatchewan, Inc.         | Call | USD | 33.00  | 2/24/14    | 317       | (5,389)      |
| Range Resources Corp.                      | Call | USD | 85.00  | 2/24/14    | 240       | (75,000)     |
| Southern Copper Corp.                      | Call | USD | 29.00  | 2/24/14    | 120       | (3,900)      |
| Southwestern Energy Co.                    | Call | USD | 41.00  | 2/24/14    | 34        | (3,145)      |
| Southwestern Energy Co.                    | Call | USD | 42.00  | 2/24/14    | 33        | (1,865)      |
| Teck Resources Ltd., Class B               | Call | CAD | 29.00  | 2/24/14    | 342       | (6,141)      |
| TransCanada Corp.                          | Call | CAD | 48.00  | 2/24/14    | 470       | (39,457)     |
| United States Steel Corp.                  | Call | USD | 31.00  | 2/24/14    | 200       | (2,100)      |
| Weyerhaeuser Co.                           | Call | USD | 32.00  | 2/24/14    | 1,022     | (10,220)     |
| Weyerhaeuser Co.                           | Call | USD | 33.00  | 2/24/14    | 516       | (5,160)      |
| The Mosaic Co.                             | Call | USD | 48.00  | 2/28/14    | 17        | (646)        |
| Air Products & Chemicals, Inc.             | Call | USD | 115.00 | 3/24/14    | 310       | (24,800)     |
| Alcoa, Inc.                                | Call | USD | 12.00  | 3/24/14    | 402       | (16,482)     |
| Allegheny Technologies, Inc.               | Call | USD | 37.50  | 3/24/14    | 262       | (3,930)      |
| Cameron International Corp.                | Call | USD | 65.00  | 3/24/14    | 50        | (4,000)      |
| Chevron Corp.                              | Call | USD | 118.25 | 3/24/14    | 140       | (7,386)      |
| Cimarex Energy Co.                         | Call | USD | 110.00 | 3/24/14    | 152       | (26,600)     |
| Deere & Co.                                | Call | USD | 90.00  | 3/24/14    | 124       | (12,214)     |
| The Dow Chemical Co.                       | Call | USD | 46.00  | 3/24/14    | 540       | (78,570)     |
| EI du Pont de Nemours & Co.                | Call | USD | 65.00  | 3/24/14    | 303       | (11,514)     |
| Enbridge, Inc. First Quantum Minerals Ltd. | Call | CAD | 47.00  | 3/24/14    | 161       | (10,914)     |
| · ·                                        | Call | CAD | 21.00  | 3/24/14    | 838       | (43,264)     |
| Goldcorp, Inc.                             | Call | USD | 27.00  | 3/24/14    | 380       | (21,470)     |

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#### BlackRock Real Asset Equity Trust (BCF)

Exchange-traded options written as of January 31, 2014 were as follows: (concluded)

|                                    | Strike |     |       |            |           |      | Market      |
|------------------------------------|--------|-----|-------|------------|-----------|------|-------------|
|                                    | Put/   |     |       | Expiration |           |      |             |
| Description                        | Call   | Pri | ce    | Date       | Contracts |      | Value       |
| Lundin Mining Corp.                | Call   | CAD | 5.00  | 3/24/14    | 425       | \$   | (8,586)     |
| MeadWestvaco Corp.                 | Call   | USD | 37.50 | 3/24/14    | 199       |      | (9,950)     |
| Phillips 66                        | Call   | USD | 77.50 | 3/24/14    | 172       |      | (17,630)    |
| Potash Corp. of Saskatchewan, Inc. | Call   | USD | 34.00 | 3/24/14    | 310       |      | (8,990)     |
| Southwestern Energy Co.            | Call   | USD | 41.00 | 3/24/14    | 30        |      | (4,995)     |
| Southwestern Energy Co.            | Call   | USD | 42.00 | 3/24/14    | 260       |      | (32,630)    |
| Teck Resources Ltd., Class B       | Call   | CAD | 29.00 | 3/24/14    | 244       |      | (9,420)     |
| Total                              |        |     |       |            |           | \$ ( | (1,308,019) |

Over-the-counter options written as of January 31, 2014 were as follows:

|                                      | Strike                             |      |     |        |            |           |           |
|--------------------------------------|------------------------------------|------|-----|--------|------------|-----------|-----------|
|                                      |                                    | Put/ |     |        | Expiration |           | Market    |
| Description                          | Counterparty                       | Call | Pr  | ice    | Date       | Contracts | Value     |
| Chevron Corp.                        | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | USD | 123.71 | 2/03/14    | 14,000    | \$        |
| ConocoPhillips                       | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | USD | 73.02  | 2/03/14    | 53,600    | (1)       |
| Fibria Celulose SA ADR               | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | USD | 12.06  | 2/03/14    | 39,300    | (2)       |
| International Paper Co.              | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | USD | 48.54  | 2/03/14    | 59,500    | (9,492)   |
| Kosmos Energy Ltd.                   | Bank of America N.A.               | Call | USD | 11.17  | 2/03/14    | 12,000    | (11)      |
| Exxon Mobil Corp.                    | Credit Suisse International        | Call | USD | 100.39 | 2/04/14    | 16,400    |           |
| Noble Energy, Inc.                   | Citibank N.A.                      | Call | USD | 70.49  | 2/04/14    | 4,000     |           |
| Royal Dutch Shell PLC ADR            | Citibank N.A.                      | Call | USD | 68.05  | 2/04/14    | 47,400    | (55,227)  |
| African Rainbow Minerals Ltd.        | Deutsche Bank AG                   | Call | ZAR | 185.82 | 2/05/14    | 36,000    | (109,494) |
| Caracal Energy, Inc.                 | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | GBP | 4.48   | 2/05/14    | 22,800    | (175)     |
| Glencore Xstrata PLC                 | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | GBP | 3.12   | 2/05/14    | 615,000   | (106,308) |
| Rio Tinto PLC                        | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | GBP | 33.71  | 2/05/14    | 61,100    | (7,562)   |
| Carpenter Technology Corp.           | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | USD | 61.36  | 2/06/14    | 12,700    | (539)     |
| EI du Pont de Nemours & Co.          | Citibank N.A.                      | Call | USD | 61.55  | 2/06/14    | 30,400    | (13,250)  |
| BG Group PLC                         | Goldman Sachs International        | Call | GBP | 12.47  | 2/07/14    | 57,500    | (1)       |
| BP PLC                               | Goldman Sachs International        | Call | GBP | 4.70   | 2/07/14    | 245,000   | (40,145)  |
| Imperial Oil Ltd.                    | Goldman Sachs International        | Call | CAD | 47.86  | 2/07/14    | 18,000    | (65)      |
| Kazakhmys PLC                        | Goldman Sachs International        | Call | GBP | 1.97   | 2/07/14    | 94,000    | (637)     |
| Mining and Metallurgical Co. Norilsk |                                    |      |     |        |            |           |           |
| Nickel OJSC                          | Goldman Sachs International        | Call | USD | 15.71  | 2/10/14    | 23,800    | (1,054)   |
| Suncor Energy, Inc.                  | Bank of America N.A.               | Call | USD | 35.26  | 2/10/14    | 20,900    | (425)     |
| Anglo American PLC                   | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | GBP | 13.42  | 2/11/14    | 27,200    | (45,301)  |
| Cairn Energy PLC                     | Morgan Stanley & Co. International |      |     |        |            |           |           |
|                                      | PLC                                | Call | GBP | 2.70   | 2/11/14    | 27,000    |           |
| Glencore Xstrata PLC                 | Credit Suisse International        | Call | GBP | 3.11   | 2/11/14    | 615,000   | (129,382) |
| Caracal Energy, Inc.                 | Goldman Sachs International        | Call | GBP | 4.66   | 2/12/14    | 30,000    | (65)      |
| Iluka Resources Ltd.                 | Deutsche Bank AG                   | Call | AUD | 8.75   | 2/12/14    | 143,200   | (23,577)  |
| Minsur SA                            | Citibank N.A.                      | Call | PEN | 1.46   | 2/13/14    | 320,000   | (17,363)  |
|                                      |                                    |      |     |        |            |           |           |

| Olin Corp.                  | Citibank N.A.                      | Call | USD | 29.78 | 2/13/14 | 29,600  | (2)      |
|-----------------------------|------------------------------------|------|-----|-------|---------|---------|----------|
| Southwestern Energy Co.     | Deutsche Bank AG                   | Call | USD | 40.04 | 2/13/14 | 26,000  | (30,835) |
| EI du Pont de Nemours & Co. | Morgan Stanley & Co. International |      |     |       |         |         |          |
|                             | PLC                                | Call | USD | 61.30 | 2/14/14 | 61,000  | (33,942) |
| Cairn Energy PLC            | Morgan Stanley & Co. International |      |     |       |         |         |          |
|                             | PLC                                | Call | GBP | 2.63  | 2/18/14 | 27,000  |          |
| Suncor Energy, Inc.         | Deutsche Bank AG                   | Call | USD | 34.66 | 2/19/14 | 20,800  | (2,914)  |
| BHP Billiton PLC            | UBS AG                             | Call | GBP | 18.65 | 2/20/14 | 113,500 | (31,460) |
| Goldcorp, Inc.              | Morgan Stanley & Co. International |      |     |       |         |         |          |
|                             | PLC                                | Call | CAD | 25.47 | 2/20/14 | 28,000  | (61,428) |
| MeadWestvaco Corp.          | Citibank N.A.                      | Call | USD | 36.87 | 2/20/14 | 46,000  | (5,970)  |
| Rio Tinto PLC               | Credit Suisse International        | Call | GBP | 33.36 | 2/20/14 | 83,800  | (70,569) |
| Southwestern Energy Co.     | Deutsche Bank AG                   | Call | USD | 39.93 | 2/20/14 | 10,000  | (14,400) |
| Vedanta Resources PLC       | Morgan Stanley & Co. International |      |     |       |         |         |          |
|                             | PLC                                | Call | GBP | 8.22  | 2/20/14 | 78,300  | (20,322) |
| MeadWestvaco Corp.          | Citibank N.A.                      | Call | USD | 37.06 | 2/24/14 | 46,000  | (7,076)  |
| Devon Energy Corp.          | Morgan Stanley & Co. International |      |     |       |         |         |          |
|                             | PLC                                | Call | USD | 61.10 | 2/26/14 | 14,700  | (13,703) |

### BlackRock Real Asset Equity Trust (BCF)

Over-the-counter options written as of January 31, 2014 were as follows: (concluded)

|                                     |                                    | Strike |     |        |            |           | Market      |
|-------------------------------------|------------------------------------|--------|-----|--------|------------|-----------|-------------|
|                                     |                                    | Put/   |     |        | Expiration |           |             |
| Description                         | Counterparty                       | Call   | Pr  | ice    | Date       | Contracts | Value       |
| Oz Minerals Ltd.                    | Goldman Sachs International        | Call   | AUD | 2.97   | 2/26/14    | 69,500    | \$ (32,738) |
| Royal Dutch Shell PLC ADR           | Citibank N.A.                      | Call   | USD | 68.05  | 2/26/14    | 47,400    | (84,088)    |
| African Rainbow Minerals Ltd.       | Deutsche Bank AG                   | Call   | ZAR | 189.81 | 2/27/14    | 42,000    | (113,840)   |
| Cairn Energy PLC                    | UBS AG                             | Call   | GBP | 2.75   | 2/27/14    | 27,000    |             |
| Caracal Energy, Inc.                | Goldman Sachs International        | Call   | GBP | 4.48   | 2/27/14    | 20,000    | (1,396)     |
| Fresnillo PLC                       | Deutsche Bank AG                   | Call   | GBP | 7.69   | 2/27/14    | 41,200    | (22,039)    |
| Vedanta Resources PLC               | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | GBP | 8.90   | 2/27/14    | 73,000    | (3,607)     |
| Deere & Co.                         | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | USD | 91.12  | 2/28/14    | 12,500    | (5,302)     |
| Fibria Celulose SA ADR              | Citibank N.A.                      | Call   | USD | 11.61  | 2/28/14    | 44,000    | (6,890)     |
| Platinum Group Metals Ltd.          | Citibank N.A.                      | Call   | CAD | 1.24   | 2/28/14    | 310,900   | (37,548)    |
| International Paper Co.             | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | USD | 49.15  | 3/04/14    | 60,100    | (45,614)    |
| Kosmos Energy Ltd.                  | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | USD | 10.52  | 3/04/14    | 20,700    | (8,144)     |
| Royal Dutch Shell PLC ADR           | Citibank N.A.                      | Call   | USD | 71.78  | 3/04/14    | 6,300     | (1,905)     |
| Newcrest Mining Ltd.                | UBS AG                             | Call   | AUD | 9.47   | 3/05/14    | 109,900   | (54,535)    |
| Oil Search Ltd.                     | Goldman Sachs International        | Call   | AUD | 8.25   | 3/05/14    | 90,200    | (11,191)    |
| Industrias Penoles SAB de CV        | Citibank N.A.                      | Call   | MXN | 339.58 | 3/06/14    | 36,200    | (8,917)     |
| Minsur SA                           | Deutsche Bank AG                   | Call   | PEN | 1.49   | 3/06/14    | 319,500   | (16,052)    |
| Anglo American Platinum Ltd.        | Deutsche Bank AG                   | Call   | ZAR | 469.45 | 3/07/14    | 12,400    | (9,836)     |
| BG Group PLC                        | UBS AG                             | Call   | GBP | 13.32  | 3/07/14    | 64,000    | (18)        |
| BHP Billiton PLC                    | Credit Suisse International        | Call   | GBP | 18.52  | 3/07/14    | 113,500   | (37,919)    |
| Cairn Energy PLC                    | Goldman Sachs International        | Call   | GBP | 2.78   | 3/07/14    | 31,700    | (3)         |
| Caracal Energy, Inc.                | Credit Suisse International        | Call   | GBP | 4.56   | 3/07/14    | 14,300    | (780)       |
| Fresnillo PLC                       | Credit Suisse International        | Call   | GBP | 7.97   | 3/07/14    | 125,000   | (47,714)    |
| Impala Platinum Holdings Ltd.       | Deutsche Bank AG                   | Call   | ZAR | 121.84 | 3/07/14    | 130,000   | (42,349)    |
| Mondi PLC                           | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | GBP | 9.93   | 3/07/14    | 83,000    | (12,678)    |
| Halliburton Co.                     | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | USD | 48.78  | 3/10/14    | 25,000    | (39,380)    |
| Agrium, Inc.                        | Credit Suisse International        | Call   | USD | 88.44  | 3/11/14    | 23,700    | (47,400)    |
| Eldorado Gold Corp.                 | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | CAD | 7.23   | 3/11/14    | 143,400   | (44,794)    |
| Noble Energy, Inc.                  | Citibank N.A.                      | Call   | USD | 66.92  | 3/11/14    | 19,500    | (13,664)    |
| Teck Resources Ltd., Class B        | Deutsche Bank AG                   | Call   | CAD | 27.30  | 3/11/14    | 68,300    | (57,411)    |
| Enbridge, Inc.                      | Deutsche Bank AG                   | Call   | CAD | 47.14  | 3/13/14    | 4,800     | (2,674)     |
| Exxon Mobil Corp.                   | Credit Suisse International        | Call   | USD | 99.49  | 3/14/14    | 36,000    | (5,215)     |
| Olin Corp.                          | Credit Suisse International        | Call   | USD | 26.16  | 3/14/14    | 27,100    | (16,802)    |
| Cairn Energy PLC                    | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | GBP | 2.68   | 3/18/14    | 31,700    | (25)        |
| Caracal Energy, Inc.                | Credit Suisse International        | Call   | GBP | 4.56   | 3/18/14    | 14,300    | (1,056)     |
| BP PLC                              | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | GBP | 4.83   | 3/25/14    | 245,000   | (37,650)    |
| Alumina Ltd.                        | Morgan Stanley & Co. International |        |     |        |            |           |             |
|                                     | PLC                                | Call   | AUD | 1.30   | 3/26/14    | 569,600   | (26,838)    |
| Jiangxi Copper Co. Ltd., Class H    | UBS AG                             | Call   | HKD | 14.06  | 3/26/14    | 469,000   | (36,979)    |
| Oil Search Ltd.                     | Morgan Stanley & Co. International |        |     |        |            |           |             |
| g N g.                              | PLC                                | Call   | AUD | 8.35   | 3/26/14    | 114,600   | (14,257)    |
| Statoil ASA                         | UBS AG                             | Call   | NOK | 156.05 | 3/26/14    | 80,700    | (16,016)    |
| Western Areas Ltd.                  | UBS AG                             | Call   | AUD | 2.64   | 3/26/14    | 307,800   | (49,754)    |
| Zijin Mining Group Co Ltd., Class H | Deutsche Bank AG                   | Call   | HKD | 1.73   | 3/26/14    | 1,830,000 | (14,267)    |
| Industrias Penoles SAB de CV        | Deutsche Bank AG                   | Call   | MXN | 342.18 | 3/27/14    | 25,000    | (10,096)    |
| Minsur SA                           | Citibank N.A.                      | Call   | PEN | 1.78   | 3/27/14    | 320,000   | (3,331)     |
| Kosmos Energy Ltd.                  | Morgan Stanley & Co. International | a      |     | 40.00  |            |           |             |
|                                     | PLC                                | Call   | USD | 10.81  | 4/01/14    | 21,500    | (8,020)     |

| Praxair, Inc. | Credit Suisse International | Call | USD | 127.21 | 4/01/14 | 56,000  | (98,504)       |
|---------------|-----------------------------|------|-----|--------|---------|---------|----------------|
| Minsur SA     | Citibank N.A.               | Call | PEN | 1.78   | 4/08/14 | 320,000 | (4,150)        |
| Total         |                             |      |     |        |         |         | \$ (2,006,083) |

JANUARY 31, 2013

5

BlackRock Real Asset Equity Trust (BCF)

Fair Value Measurements Various inputs are used in determining the fair value of investments and derivative financial instruments. These inputs to valuation techniques are categorized into a disclosure hierarchy consisting of three broad levels for financial reporting purposes as follows:

Level 1 unadjusted price quotations in active markets/exchanges for identical assets or liabilities that the Trust has the ability to access

Level 2 other observable inputs (including, but not limited to, quoted prices for similar assets or liabilities in markets that are active, quoted prices for identical or similar assets or liabilities in markets that are not active, inputs other than quoted prices that are observable for the assets or liabilities (such as interest rates, yield curves, volatilities, prepayment speeds, loss severities, credit risks and default rates) or other market-corroborated inputs)

Level 3 unobservable inputs based on the best information available in the circumstances, to the extent observable inputs are not available (including the Trust s own assumptions used in determining the fair value of investments and derivative financial instruments)

The hierarchy gives the highest priority to unadjusted quoted prices in active markets for identical assets or liabilities (Level 1 measurements) and the lowest priority to unobservable inputs (Level 3 measurements). Accordingly, the degree of judgment exercised in determining fair value is greatest for instruments categorized in Level 3. The inputs used to measure fair value may fall into different levels of the fair value hierarchy. In such cases, for disclosure purposes, the fair value hierarchy classification is determined based on the lowest level input that is significant to the fair value measurement in its entirety.

Changes in valuation techniques may result in transfers into or out of an assigned level within the disclosure hierarchy. In accordance with the Trust s policy, transfers between different levels of the fair value disclosure hierarchy are deemed to have occurred as of the beginning of the reporting period. The categorization of a value determined for investments and derivative financial instruments is based on the pricing transparency of the investment and derivative financial instrument and is not necessarily an indication of the risks associated with investing in those securities. For information about the Trust s policy regarding valuation of investments and derivative financial instruments, please refer to the Trust s most recent financial statements as contained in its annual report.

The following tables summarize the Trust s investments and derivative financial instruments categorized in the disclosure hierarchy as of January 31, 2014:

|                                                   | Level 1        | Level 2        | Level 3 | Total          |
|---------------------------------------------------|----------------|----------------|---------|----------------|
| Assets:                                           |                |                |         |                |
| Investments:                                      |                |                |         |                |
| Long-Term Investments:                            |                |                |         |                |
| Common Stocks:                                    |                |                |         |                |
| Chemicals                                         | \$ 85,372,136  |                |         | \$ 85,372,136  |
| Containers & Packaging                            | 15,142,186     |                |         | 15,142,186     |
| Energy Equipment & Services                       | 18,279,289     |                |         | 18,279,289     |
| Machinery                                         | 25,548,741     |                |         | 25,548,741     |
| Metals & Mining                                   | 84,180,740     | \$ 103,390,908 |         | 187,571,648    |
| Oil, Gas & Consumable Fuels                       | 141,543,779    | 33,691,355     |         | 175,235,134    |
| Paper & Forest Products                           | 18,981,883     | 3,594,148      |         | 22,576,031     |
| Real Estate Investment Trusts (REITs)             | 13,123,296     |                |         | 13,123,296     |
| Short-Term Securities                             | 16,796,788     |                |         | 16,796,788     |
| Total                                             | \$ 418,968,838 | \$ 140,676,411 |         | \$ 559,645,249 |
|                                                   |                |                |         |                |
|                                                   |                |                | Level   |                |
|                                                   | Level 1        | Level 2        | 3       | Total          |
| Derivative Financial Instruments <sup>1</sup>     | Level 1        | Level 2        | 3       | 1 otai         |
| Assets:                                           |                |                |         |                |
|                                                   | \$ 523         |                |         | \$ 523         |
| Foreign currency exchange contracts  Liabilities: | \$ 323         |                |         | \$ 323         |
| <del></del>                                       | (1.202.029)    | ¢ (2.020.164)  |         | (2 214 102)    |
| Equity contracts                                  | (1,293,938)    | \$ (2,020,164) |         | (3,314,102)    |
| Foreign currency exchange contracts               | (5,985)        | ¢ (2.020.164)  |         | (5,985)        |
| Total                                             | \$ (1,299,400) | \$ (2,020,164) |         | \$ (3,319,564) |
|                                                   |                |                |         |                |

<sup>1</sup> Derivative financial instruments are foreign currency exchange contracts and options written. Foreign currency exchange contracts are valued at the unrealized appreciation/depreciation on the instrument and options written are shown at value.

#### BlackRock Real Asset Equity Trust (BCF)

The carrying amount for certain of the Trust s assets approximates fair value for financial reporting purposes. As of January 31, 2014, such assets are categorized within the disclosure hierarchy as follows:

|                           | Level 1 Level | 2 Level 3 Total |
|---------------------------|---------------|-----------------|
| Assets:                   |               |                 |
| Cash                      | \$ 50,826     | \$ 50,826       |
| Foreign currency at value | 1,112,819     | 1,112,819       |
| Total                     | \$ 1,163,645  | \$ 1,163,645    |

There were no transfers between Levels during the period ended January 31, 2014.

#### Item 2 Controls and Procedures

- 2(a) The registrant s principal executive and principal financial officers, or persons performing similar functions, have concluded that the registrant s disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the 1940 Act )) are effective as of a date within 90 days of the filing of this report based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) under the Securities Exchange Act of 1934, as amended.
- 2(b) There were no changes in the registrant s internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant s last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrant s internal control over financial reporting.
- Item 3 Exhibits

Certifications Attached hereto

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

BlackRock Real Asset Equity Trust

By: /s/ John M. Perlowski John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock Real Asset Equity Trust

Date: March 25, 2014

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

By: /s/ John M. Perlowski

John M. Perlowski

Chief Executive Officer (principal executive officer) of

BlackRock Real Asset Equity Trust

Date: March 25, 2014

By: /s/ Neal J. Andrews

Neal J. Andrews

Chief Financial Officer (principal financial officer) of

BlackRock Real Asset Equity Trust

Date: March 25, 2014