

Eaton Vance Enhanced Equity Income Fund  
Form N-Q  
March 01, 2010

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

**Form N-Q**

**QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED  
MANAGEMENT INVESTMENT COMPANIES**

**811-21614**

**Investment Company Act File Number**

**Eaton Vance Enhanced Equity Income Fund**

(Exact Name of Registrant as Specified in Charter)

Two International Place, Boston, Massachusetts 02110

(Address of Principal Executive Offices)

Maureen A. Gemma

Two International Place, Boston, Massachusetts 02110

(Name and Address of Agent for Services)

(617) 482-8260

(Registrant's Telephone Number, Including Area Code)

September 30

Date of Fiscal Year End

December 31, 2009

Date of Reporting Period

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**Item 1. Schedule of Investments**

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General Dynamics Corp.

Lockheed Martin Corp.

**Shares****Value**

87,890 \$ 5,991,461

51,489 3,879,696

**\$ 9,871,157****Air Freight & Logistics 0.7%**

FedEx Corp.

49,044 \$ 4,092,722

**\$ 4,092,722****Beverages 2.0%**

Coca-Cola Co. (The)

PepsiCo, Inc.

53,661 \$ 3,058,677

129,030 7,845,024

**\$ 10,903,701****Biotechnology 1.4%**Amgen, Inc.<sup>(2)</sup>Celgene Corp.<sup>(2)</sup>

94,121 \$ 5,324,425

37,704 2,099,359

**\$ 7,423,784****Capital Markets 3.5%**

Goldman Sachs Group, Inc.

Northern Trust Corp.

State Street Corp.

66,584 \$ 11,242,042

94,239 4,938,124

72,658 3,163,529

**\$ 19,343,695****Chemicals 0.6%**

Monsanto Co.

38,443 \$ 3,142,715

**\$ 3,142,715****Commercial Banks 3.1%**

PNC Financial Services Group, Inc.

U.S. Bancorp

Wells Fargo &amp; Co.

77,948 \$ 4,114,875

147,462 3,319,369

352,605 9,516,809

**\$ 16,951,053**

|   |             |         |                      |
|---|-------------|---------|----------------------|
| <b>Commercial Services &amp; Supplies</b> | <b>1.2%</b> |         |                      |
| Waste Management, Inc.                    |             | 196,926 | \$ 6,658,068         |
|   |             |         | <b>\$ 6,658,068</b>  |
| <b>Communications Equipment</b>           | <b>2.9%</b> |         |                      |
| Cisco Systems, Inc. <sup>(2)</sup>        |             | 479,090 | \$ 11,469,415        |
| QUALCOMM, Inc.                            |             | 99,159  | 4,587,095            |
|   |             |         | <b>\$ 16,056,510</b> |
| <b>Computers &amp; Peripherals</b>        | <b>6.9%</b> |         |                      |
| Apple, Inc. <sup>(2)</sup>                |             | 80,679  | \$ 17,011,974        |
| Hewlett-Packard Co.                       |             | 173,570 | 8,940,591            |
| International Business Machines Corp.     |             | 90,748  | 11,878,913           |
|   |             |         | <b>\$ 37,831,478</b> |
| <b>Consumer Finance</b>                   | <b>0.6%</b> |         |                      |
| American Express Co.                      |             | 81,560  | \$ 3,304,811         |
|   |             |         | <b>\$ 3,304,811</b>  |
| <b>Diversified Financial Services</b>     | <b>4.3%</b> |         |                      |
| Bank of America Corp.                     |             | 684,141 | \$ 10,303,164        |
| JPMorgan Chase & Co.                      |             | 314,081 | 13,087,755           |
|   |             |         | <b>\$ 23,390,919</b> |

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|  | <b>Shares</b> | <b>Value</b>         |
|--|---------------|----------------------|
| <b>Security</b>  |               |                      |
| <b>Diversified Telecommunication Services 1.5%</b>             |               |                      |
| AT&T, Inc.   | 184,977       | \$ 5,184,906         |
| Verizon Communications, Inc.                                   | 97,933        | 3,244,520            |
|  |               | <b>\$ 8,429,426</b>  |
| <b>Electric Utilities 0.9%</b>                                 |               |                      |
| American Electric Power Co., Inc.                              | 47,461        | \$ 1,651,168         |
| FirstEnergy Corp.  | 70,920        | 3,294,234            |
|  |               | <b>\$ 4,945,402</b>  |
| <b>Electrical Equipment 1.1%</b>                               |               |                      |
| Emerson Electric Co.   | 145,504       | \$ 6,198,470         |
|  |               | <b>\$ 6,198,470</b>  |
| <b>Electronic Equipment, Instruments &amp; Components 1.3%</b> |               |                      |
| Corning, Inc.  | 376,802       | \$ 7,276,047         |
|  |               | <b>\$ 7,276,047</b>  |
| <b>Energy Equipment &amp; Services 1.9%</b>                    |               |                      |
| Diamond Offshore Drilling, Inc.                                | 56,951        | \$ 5,605,118         |
| Schlumberger, Ltd.   | 70,849        | 4,611,561            |
|  |               | <b>\$ 10,216,679</b> |
| <b>Food &amp; Staples Retailing 1.9%</b>                       |               |                      |
| CVS Caremark Corp.   | 192,184       | \$ 6,190,246         |
| Wal-Mart Stores, Inc.  | 78,013        | 4,169,795            |
|  |               | <b>\$ 10,360,041</b> |
| <b>Food Products 1.9%</b>                                      |               |                      |
| Kellogg Co.  | 53,781        | \$ 2,861,149         |
| Nestle SA ADR  | 154,966       | 7,492,606            |
|  |               | <b>\$ 10,353,755</b> |
| <b>Health Care Equipment &amp; Supplies 3.7%</b>               |               |                      |
| Baxter International, Inc.                                     | 69,166        | \$ 4,058,661         |
| Boston Scientific Corp. <sup>(2)</sup>                         | 318,419       | 2,865,771            |
| Covidien PLC   | 78,455        | 3,757,210            |
| HeartWare International, Inc. <sup>(2)</sup>                   | 80,605        | 2,859,025            |
| Thoratec Corp. <sup>(2)</sup>                                  | 124,552       | 3,352,940            |
| Zimmer Holdings, Inc. <sup>(2)</sup>                           | 54,875        | 3,243,661            |

|   |             |                      |
|---|-------------|----------------------|
|   |             | <b>\$ 20,137,268</b> |
| <b>Health Care Providers &amp; Services</b> | <b>0.3%</b> |                      |
| Fresenius Medical Care AG & Co. KGaA ADR    | 30,548      | \$ 1,619,349         |
|   |             | <b>\$ 1,619,349</b>  |
| <b>Hotels, Restaurants &amp; Leisure</b>    | <b>1.2%</b> |                      |
| Carnival Corp. <sup>(2)</sup>               | 96,329      | \$ 3,052,666         |
| McDonald's Corp.                            | 59,071      | 3,688,393            |
|   |             | <b>\$ 6,741,059</b>  |
| <b>Household Products</b>                   | <b>3.8%</b> |                      |
| Colgate-Palmolive Co.                       | 131,123     | \$ 10,771,754        |
| Procter & Gamble Co.                        | 164,231     | 9,957,326            |
|   |             | <b>\$ 20,729,080</b> |
| <b>Industrial Conglomerates</b>             | <b>2.2%</b> |                      |
| General Electric Co.                        | 796,943     | \$ 12,057,748        |
|   |             | <b>\$ 12,057,748</b> |



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|   | <b>Shares</b> | <b>Value</b>         |
|---|---------------|----------------------|
| <b>Security Insurance 2.2%</b>                      |               |                      |
| Lincoln National Corp.                              | 120,087       | \$ 2,987,765         |
| MetLife, Inc.                                       | 111,605       | 3,945,237            |
| Prudential Financial, Inc.                          | 98,694        | 4,911,013            |
|   |               | <b>\$ 11,844,015</b> |
| <b>Internet &amp; Catalog Retail 1.3%</b>           |               |                      |
| Amazon.com, Inc. <sup>(2)</sup>                     | 54,610        | \$ 7,346,137         |
|   |               | <b>\$ 7,346,137</b>  |
| <b>Internet Software &amp; Services 2.0%</b>        |               |                      |
| Google, Inc., Class A <sup>(2)</sup>                | 17,812        | \$ 11,043,084        |
|   |               | <b>\$ 11,043,084</b> |
| <b>IT Services 2.1%</b>                             |               |                      |
| MasterCard, Inc., Class A                           | 27,465        | \$ 7,030,491         |
| Western Union Co.                                   | 226,316       | 4,266,056            |
|   |               | <b>\$ 11,296,547</b> |
| <b>Life Sciences Tools &amp; Services 0.8%</b>      |               |                      |
| Thermo Fisher Scientific, Inc. <sup>(2)</sup>       | 97,676        | \$ 4,658,168         |
|   |               | <b>\$ 4,658,168</b>  |
| <b>Machinery 3.9%</b>                               |               |                      |
| Danaher Corp.                                       | 91,520        | \$ 6,882,304         |
| Deere & Co.   | 84,560        | 4,573,850            |
| Illinois Tool Works, Inc.                           | 150,641       | 7,229,262            |
| PACCAR, Inc.  | 72,756        | 2,638,860            |
|   |               | <b>\$ 21,324,276</b> |
| <b>Media 0.6%</b>                                   |               |                      |
| Walt Disney Co. (The)                               | 108,475       | \$ 3,498,319         |
|   |               | <b>\$ 3,498,319</b>  |
| <b>Metals &amp; Mining 3.7%</b>                     |               |                      |
| BHP Billiton, Ltd. ADR                              | 43,446        | \$ 3,327,094         |
| Freeport-McMoRan Copper & Gold, Inc. <sup>(2)</sup> | 39,775        | 3,193,535            |
| Goldcorp, Inc.                                      | 274,055       | 10,781,324           |
| United States Steel Corp.                           | 56,082        | 3,091,240            |

|  |         |                      |
|--|---------|----------------------|
|  |         | <b>\$ 20,393,193</b> |
| <b>Multi-Utilities 1.2%</b>                  |         |                      |
| PG&E Corp.                                   | 83,297  | \$ 3,719,211         |
| Public Service Enterprise Group, Inc.        | 91,570  | 3,044,703            |
|  |         | <b>\$ 6,763,914</b>  |
| <b>Multiline Retail 0.9%</b>                 |         |                      |
| Target Corp.                                 | 98,969  | \$ 4,787,131         |
|  |         | <b>\$ 4,787,131</b>  |
| <b>Oil, Gas &amp; Consumable Fuels 10.2%</b> |         |                      |
| Anadarko Petroleum Corp.                     | 118,517 | \$ 7,397,831         |
| Chevron Corp.                                | 168,484 | 12,971,583           |
| Exxon Mobil Corp.                            | 158,018 | 10,775,247           |
| Hess Corp.                                   | 131,106 | 7,931,913            |
| Occidental Petroleum Corp.                   | 115,825 | 9,422,364            |
| Total SA ADR                                 | 24,618  | 1,576,537            |
| XTO Energy, Inc.                             | 127,209 | 5,919,035            |
|  |         | <b>\$ 55,994,510</b> |
| <b>Personal Products 0.4%</b>                |         |                      |
| Avon Products, Inc.                          | 61,884  | \$ 1,949,346         |
|  |         | <b>\$ 1,949,346</b>  |

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|  | <b>Shares</b> | <b>Value</b>         |
|--|---------------|----------------------|
| <b>Security</b>  |               |                      |
| <b>Pharmaceuticals 6.4%</b>                              |               |                      |
| Abbott Laboratories                                      | 98,225        | \$ 5,303,168         |
| Bristol-Myers Squibb Co.                                 | 163,695       | 4,133,299            |
| Johnson & Johnson  | 201,616       | 12,986,086           |
| Merck & Co., Inc.  | 55,170        | 2,015,912            |
| Pfizer, Inc.   | 576,044       | 10,478,240           |
|  |               | <b>\$ 34,916,705</b> |
| <b>Real Estate Investment Trusts (REITs) 0.2%</b>        |               |                      |
| AvalonBay Communities, Inc.                              | 5,597         | \$ 459,570           |
| Boston Properties, Inc.                                  | 6,279         | 421,132              |
|  |               | <b>\$ 880,702</b>    |
| <b>Road &amp; Rail 0.8%</b>                              |               |                      |
| CSX Corp.  | 86,531        | \$ 4,195,888         |
|  |               | <b>\$ 4,195,888</b>  |
| <b>Semiconductors &amp; Semiconductor Equipment 2.8%</b> |               |                      |
| ASML Holding NV ADR                                      | 201,450       | \$ 6,867,430         |
| Intel Corp.  | 222,873       | 4,546,609            |
| NVIDIA Corp. <sup>(2)</sup>                              | 203,385       | 3,799,232            |
|  |               | <b>\$ 15,213,271</b> |
| <b>Software 4.0%</b>                                     |               |                      |
| Microsoft Corp.  | 450,116       | \$ 13,724,037        |
| Oracle Corp.   | 331,155       | 8,126,544            |
|  |               | <b>\$ 21,850,581</b> |
| <b>Specialty Retail 4.8%</b>                             |               |                      |
| Best Buy Co., Inc.                                       | 114,814       | \$ 4,530,560         |
| Gap, Inc. (The)  | 152,429       | 3,193,388            |
| Home Depot, Inc.   | 268,893       | 7,779,075            |
| Staples, Inc.  | 254,538       | 6,259,089            |
| TJX Companies, Inc. (The)                                | 126,283       | 4,615,644            |
|  |               | <b>\$ 26,377,756</b> |
| <b>Textiles, Apparel &amp; Luxury Goods 1.2%</b>         |               |                      |
| NIKE, Inc., Class B                                      | 95,523        | \$ 6,311,205         |
|  |               | <b>\$ 6,311,205</b>  |

|  |                                    |                       |
|--|------------------------------------|-----------------------|
| <b>Tobacco 1.0%</b>  |                                    |                       |
| Philip Morris International, Inc.                                    | 118,436                            | \$ 5,707,431          |
|  |                                    | <b>\$ 5,707,431</b>   |
| <b>Wireless Telecommunication Services 0.6%</b>                      |                                    |                       |
| American Tower Corp., Class A <sup>(2)</sup>                         | 76,823                             | \$ 3,319,522          |
|  |                                    | <b>\$ 3,319,522</b>   |
| <b>Total Common Stocks</b><br>(identified cost \$515,073,844)        |                                    | <b>\$ 557,706,638</b> |
| <b>Short-Term Investments 1.0%</b>                                   |                                    |                       |
| <b>Description</b>   | <b>Interest</b><br>(000 s omitted) | <b>Value</b>          |
| Cash Management Portfolio, 0.00% <sup>(3)</sup>                      | \$ 5,743                           | \$ 5,742,597          |
| <b>Total Short-Term Investments</b><br>(identified cost \$5,742,597) |                                    | <b>\$ 5,742,597</b>   |
| <b>Total Investments 102.8%</b><br>(identified cost \$520,816,441)   |                                    | <b>\$ 563,449,235</b> |

**Table of Contents****Covered Call Options Written (2.9)%**

| <b>Security</b>                             | <b>Number of<br/>Contracts</b> | <b>Strike<br/>Price</b> | <b>Expiration<br/>Date</b> | <b>Value</b> |
|---|--------------------------------|-------------------------|----------------------------|--------------|
| Abbott Laboratories                         | 515                            | \$ 52.50                | 2/20/10                    | \$ (115,360) |
| Amazon.com, Inc.                            | 269                            | 100.00                  | 1/16/10                    | (961,675)    |
| Amazon.com, Inc.                            | 135                            | 135.00                  | 1/16/10                    | (51,300)     |
| American Electric Power Co., Inc.           | 350                            | 31.00                   | 2/20/10                    | (136,500)    |
| American Express Co.                        | 600                            | 41.00                   | 1/16/10                    | (39,000)     |
| American Tower Corp., Class A               | 370                            | 37.50                   | 1/16/10                    | (222,000)    |
| Amgen, Inc.                                 | 670                            | 60.00                   | 1/16/10                    | (17,420)     |
| Anadarko Petroleum Corp.                    | 880                            | 65.00                   | 2/20/10                    | (198,000)    |
| Apple, Inc.                                 | 397                            | 195.00                  | 1/16/10                    | (662,990)    |
| Apple, Inc.                                 | 100                            | 200.00                  | 2/20/10                    | (184,000)    |
| ASML Holding NV ADR                         | 1,987                          | 35.00                   | 1/16/10                    | (94,382)     |
| AT&T, Inc.                                  | 976                            | 26.00                   | 1/16/10                    | (219,600)    |
| Avon Products, Inc.                         | 455                            | 35.00                   | 1/16/10                    | (11,375)     |
| Bank of America Corp.                       | 5,060                          | 17.00                   | 2/20/10                    | (131,560)    |
| Baxter International, Inc.                  | 510                            | 55.00                   | 2/20/10                    | (236,130)    |
| Best Buy Co., Inc.                          | 690                            | 45.00                   | 3/20/10                    | (41,400)     |
| BHP Billiton, Ltd. ADR                      | 215                            | 75.00                   | 2/20/10                    | (101,050)    |
| Boston Properties, Inc.                     | 20                             | 70.00                   | 1/16/10                    | (1,500)      |
| Boston Scientific Corp.                     | 2,355                          | 8.00                    | 2/20/10                    | (270,825)    |
| Bristol-Myers Squibb Co.                    | 1,000                          | 26.00                   | 3/20/10                    | (95,000)     |
| Carnival Corp.                              | 715                            | 34.00                   | 1/16/10                    | (10,725)     |
| Celgene Corp.                               | 275                            | 55.00                   | 1/16/10                    | (53,625)     |
| Chevron Corp.                               | 1,010                          | 80.00                   | 3/20/10                    | (140,390)    |
| Cisco Systems, Inc.                         | 3,545                          | 24.00                   | 1/16/10                    | (159,525)    |
| Coca Cola Co. (The)                         | 300                            | 55.00                   | 1/16/10                    | (71,100)     |
| Colgate-Palmolive Co.                       | 650                            | 85.00                   | 2/20/10                    | (94,250)     |
| Corning, Inc.                               | 1,970                          | 16.00                   | 2/20/10                    | (669,800)    |
| Corning, Inc.                               | 300                            | 19.00                   | 2/20/10                    | (37,500)     |
| Covidien PLC                                | 470                            | 45.00                   | 1/16/10                    | (160,270)    |
| CSX Corp.                                   | 430                            | 50.00                   | 2/20/10                    | (62,350)     |
| CVS Caremark Corp.                          | 1,420                          | 32.00                   | 2/20/10                    | (213,000)    |
| Danaher Corp.                               | 550                            | 75.00                   | 3/20/10                    | (173,250)    |
| Deere & Co.                                 | 510                            | 55.00                   | 3/20/10                    | (145,350)    |
| Diamond Offshore Drilling, Inc.             | 340                            | 98.13                   | 3/20/10                    | (211,820)    |
| Emerson Electric Co.                        | 875                            | 42.00                   | 3/20/10                    | (188,125)    |
| Exxon Mobil Corp.                           | 765                            | 70.00                   | 1/16/10                    | (27,540)     |
| FedEx Corp.                                 | 305                            | 80.00                   | 1/16/10                    | (134,200)    |
| FirstEnergy Corp.                           | 699                            | 50.00                   | 1/16/10                    | (3,495)      |
| Freeport-McMoRan Copper & Gold, Inc.        | 200                            | 85.00                   | 2/20/10                    | (56,000)     |
| Fresenius Medical Care AG & Co. KGaA<br>ADR | 160                            | 55.00                   | 1/16/10                    | (2,800)      |
| Gap, Inc. (The)                             | 915                            | 21.00                   | 3/20/10                    | (118,950)    |
| General Dynamics Corp.                      | 460                            | 65.00                   | 2/20/10                    | (188,600)    |
| General Electric Co.                        | 4,785                          | 16.00                   | 3/20/10                    | (220,110)    |

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|                                       |       |        |         |           |
|---------------------------------------|-------|--------|---------|-----------|
| Goldman Sachs Group, Inc.             | 500   | 195.00 | 1/16/10 | (9,000)   |
| Google, Inc., Class A                 | 105   | 600.00 | 3/20/10 | (425,250) |
| Hess Corp.                            | 685   | 60.00  | 2/20/10 | (226,050) |
| Hewlett-Packard Co.                   | 860   | 50.00  | 2/20/10 | (241,660) |
| Home Depot, Inc.                      | 1,010 | 27.00  | 2/20/10 | (244,420) |
| Home Depot, Inc.                      | 605   | 29.00  | 2/20/10 | (56,265)  |
| Illinois Tool Works, Inc.             | 905   | 50.00  | 3/20/10 | (131,225) |
| Intel Corp.                           | 1,165 | 19.00  | 1/16/10 | (187,565) |
| International Business Machines Corp. | 447   | 130.00 | 1/16/10 | (106,386) |
| Johnson & Johnson                     | 1,989 | 65.00  | 1/16/10 | (87,516)  |
| JPMorgan Chase & Co.                  | 1,885 | 42.00  | 3/20/10 | (452,400) |
| Kellogg Co.                           | 285   | 55.00  | 1/16/10 | (2,850)   |
| Lockheed Martin Corp.                 | 310   | 80.00  | 3/20/10 | (41,850)  |
| MasterCard, Inc., Class A             | 210   | 210.00 | 1/16/10 | (980,700) |
| McDonald's Corp.                      | 355   | 62.50  | 3/20/10 | (71,710)  |
| Merck & Co., Inc.                     | 29    | 32.50  | 1/16/10 | (12,876)  |

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| <b>Security</b>  | <b>Number of<br/>Contracts</b> | <b>Strike<br/>Price</b> | <b>Expiration<br/>Date</b> | <b>Value</b>           |
|--|--------------------------------|-------------------------|----------------------------|------------------------|
| MetLife, Inc.  | 670                            | \$ 36.00                | 3/20/10                    | \$ (130,650)           |
| Microsoft Corp.  | 2,465                          | 26.00                   | 1/16/10                    | (1,121,575)            |
| Microsoft Corp.  | 870                            | 30.00                   | 1/16/10                    | (67,860)               |
| Monsanto Co.   | 285                            | 80.00                   | 1/16/10                    | (82,650)               |
| NIKE, Inc., Class B  | 680                            | 65.00                   | 1/16/10                    | (131,920)              |
| Northern Trust Corp.   | 380                            | 60.00                   | 1/16/10                    | (9,500)                |
| Northern Trust Corp.   | 185                            | 50.00                   | 2/20/10                    | (67,525)               |
| NVIDIA Corp.   | 1,220                          | 18.00                   | 3/20/10                    | (241,560)              |
| Occidental Petroleum Corp.   | 695                            | 85.00                   | 2/20/10                    | (135,525)              |
| Oracle Corp.   | 1,990                          | 24.00                   | 3/20/10                    | (298,500)              |
| PACCAR, Inc.   | 380                            | 38.00                   | 2/20/10                    | (39,900)               |
| PepsiCo, Inc.  | 970                            | 62.50                   | 1/16/10                    | (19,400)               |
| Pfizer, Inc.   | 3,460                          | 18.00                   | 3/20/10                    | (332,160)              |
| PG&E Corp.   | 400                            | 45.00                   | 1/16/10                    | (26,000)               |
| Philip Morris International, Inc.  | 710                            | 50.00                   | 3/20/10                    | (92,300)               |
| PNC Financial Services Group, Inc.   | 400                            | 55.00                   | 2/20/10                    | (82,000)               |
| Procter & Gamble Co.   | 810                            | 57.50                   | 1/16/10                    | (271,350)              |
| Prudential Financial, Inc.   | 600                            | 50.00                   | 3/20/10                    | (222,000)              |
| Public Service Enterprise Group, Inc.  | 550                            | 35.00                   | 3/20/10                    | (134,750)              |
| QUALCOMM, Inc.   | 489                            | 44.00                   | 1/16/10                    | (121,761)              |
| QUALCOMM, Inc.   | 245                            | 45.00                   | 1/16/10                    | (40,670)               |
| Schlumberger, Ltd.   | 525                            | 65.00                   | 2/20/10                    | (165,375)              |
| Staples, Inc.  | 1,530                          | 24.00                   | 3/20/10                    | (244,800)              |
| State Street Corp.   | 535                            | 42.00                   | 2/20/10                    | (181,900)              |
| Target Corp.   | 976                            | 55.00                   | 1/16/10                    | (2,928)                |
| Thermo Fisher Scientific, Inc.   | 590                            | 50.00                   | 3/20/10                    | (73,750)               |
| TJX Companies, Inc. (The)  | 745                            | 40.00                   | 1/16/10                    | (3,725)                |
| Total SA ADR   | 130                            | 60.00                   | 2/20/10                    | (76,700)               |
| U.S. Bancorp   | 885                            | 23.00                   | 3/20/10                    | (99,120)               |
| United States Steel Corp.  | 265                            | 44.00                   | 1/16/10                    | (300,113)              |
| Verizon Communications, Inc.   | 265                            | 29.00                   | 1/16/10                    | (109,975)              |
| Verizon Communications, Inc.   | 325                            | 33.00                   | 2/20/10                    | (25,025)               |
| Wal-Mart Stores, Inc.  | 470                            | 52.50                   | 3/20/10                    | (106,220)              |
| Walt Disney Co. (The)  | 695                            | 29.00                   | 1/16/10                    | (229,350)              |
| Waste Management, Inc.   | 915                            | 30.00                   | 1/16/10                    | (366,000)              |
| Wells Fargo & Co.  | 2,625                          | 31.00                   | 1/16/10                    | (10,500)               |
| Western Union Co.  | 1,675                          | 20.00                   | 2/20/10                    | (83,750)               |
| Zimmer Holdings, Inc.  | 330                            | 60.00                   | 3/20/10                    | (85,800)               |
| <b>Total Covered Call Options Written<br/>(premiums received \$16,328,073)</b> |                                |                         |                            | <b>\$ (16,046,152)</b> |
| <b>Other Assets, Less Liabilities 0.1%</b>                                     |                                |                         |                            | <b>\$ 282,361</b>      |

**Net Assets 100.0%**

**\$ 547,685,444**

The percentage shown for each investment category in the Portfolio of Investments in based on net assets.

ADR - American Depositary Receipt

- (1) A portion of each applicable common stock for which a written call option is outstanding at December 31, 2009 has been pledged as collateral for such written option.
- (2) Non-income producing security.
- (3) Affiliated investment company available to Eaton Vance portfolios and funds which invests in high quality, U.S. dollar denominated money market instruments. The rate shown is the annualized seven-day yield as of December 31, 2009. Net income allocated from the investment in Cash Management Portfolio for the fiscal year to date ended December 31, 2009 was \$0.



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The cost and unrealized appreciation (depreciation) of investments of the Fund at December 31, 2009, as determined on a federal income tax basis, were as follows:

|                                    |                       |
|------------------------------------|-----------------------|
| <b>Aggregate cost</b>              | <b>\$ 522,624,438</b> |
| Gross unrealized appreciation      | \$ 72,369,640         |
| Gross unrealized depreciation      | (31,544,843)          |
| <b>Net unrealized appreciation</b> | <b>\$ 40,824,797</b>  |

Written call options activity for the fiscal year to date ended December 31, 2009 was as follows:

|   | <b>Number of<br/>Contracts</b> | <b>Premiums<br/>Received</b> |
|---|--------------------------------|------------------------------|
| Outstanding, beginning of period                    | 82,872                         | \$ 16,233,693                |
| Options written                                     | 90,581                         | 18,529,846                   |
| Options terminated in closing purchase transactions | (61,338)                       | (13,822,112)                 |
| Options exercised                                   | (5,776)                        | (855,508)                    |
| Options expired                                     | (23,856)                       | (3,757,846)                  |
| <b>Outstanding, end of period</b>                   | <b>82,483</b>                  | <b>\$ 16,328,073</b>         |

At December 31, 2009, the Fund had sufficient cash and/or securities to cover commitments under these contracts.

The Fund is subject to equity price risk in the normal course of pursuing its investment objective. The Fund generally intends to write covered call options on individual stocks above the current value of the stock to generate premium income. In writing call options on individual stocks, the Fund in effect, sells potential appreciation in the value of the applicable stock above the exercise price in exchange for the option premium received. The Fund retains the risk of loss, minus the premium received, should the price of the underlying stock decline.

At December 31, 2009, the aggregate fair value of derivative instruments (not considered to be hedging instruments for accounting disclosure purposes) in a liability position and whose primary underlying risk exposure is equity price risk was \$16,046,152.

Under generally accepted accounting principles for fair value measurements, a three-tier hierarchy to prioritize the assumptions, referred to as inputs, is used in valuation techniques to measure fair value. The three-tier hierarchy of inputs is summarized in the three broad levels listed below.

Level 1 quoted prices in active markets for identical investments

Level 2 other significant observable inputs (including quoted prices for similar investments, interest rates, prepayment speeds, credit risk, etc.)

Level 3 significant unobservable inputs (including a fund's own assumptions in determining the fair value of investments)

The inputs or methodology used for valuing securities are not necessarily an indication of the risk associated with investing in those securities.

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At December 31, 2009, the inputs used in valuing the Fund's investments, which are carried at value, were as follows:

|                              | <b>Quoted Prices<br/>in<br/>Active<br/>Markets for<br/>Identical<br/>Assets<br/><br/>(Level 1)</b> | <b>Significant<br/>Other<br/>Observable<br/>Inputs<br/><br/>(Level 2)</b> | <b>Significant<br/>Unobservable<br/>Inputs<br/><br/>(Level 3)</b> | <b>Total</b>           |
|------------------------------|--|---|---|------------------------|
| <b>Asset Description</b>     |  |   |   |                        |
| Common Stocks                | \$ 557,706,638   | \$  | \$  | \$ 557,706,638         |
| Short-Term Investments       | 5,742,597  |   |   | 5,742,597              |
| <b>Total Investments</b>     | <b>\$ 563,449,235</b>  | <b>\$</b>   | <b>\$</b>   | <b>\$ 563,449,235</b>  |
| <b>Liability Description</b> |  |   |   |                        |
| Covered Call Options Written | \$ (16,046,152)  | \$  | \$  | \$ (16,046,152)        |
| <b>Total</b>                 | <b>\$ (16,046,152)</b>   | <b>\$</b>   | <b>\$</b>   | <b>\$ (16,046,152)</b> |

The level classification by major category of investments is the same as the category presentation in the Portfolio of Investments.

The Fund held no investments or other financial instruments as of September 30, 2009 whose fair value was determined using Level 3 inputs.

For information on the Fund's policy regarding the valuation of investments and other significant accounting policies, please refer to the Fund's most recent financial statements included in its semiannual or annual report to shareholders.

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**Item 2. Controls and Procedures**

(a) It is the conclusion of the registrant's principal executive officer and principal financial officer that the effectiveness of the registrant's current disclosure controls and procedures (such disclosure controls and procedures having been evaluated within 90 days of the date of this filing) provide reasonable assurance that the information required to be disclosed by the registrant on this Form N-Q has been recorded, processed, summarized and reported within the time period specified in the Commission's rules and forms and that the information required to be disclosed by the registrant on this Form N-Q has been accumulated and communicated to the registrant's principal executive officer and principal financial officer in order to allow timely decisions regarding required disclosure.

(b) There have been no changes in the registrant's internal controls over financial reporting during the fiscal quarter for which the report is being filed that have materially affected, or are reasonably likely to materially affect the registrant's internal control over financial reporting.

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**Signatures**

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

**Eaton Vance Enhanced Equity Income Fund**

By: /s/ Duncan W. Richardson

Duncan W. Richardson  
President

Date: February 22, 2010

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/ Duncan W. Richardson

Duncan W. Richardson  
President

Date: February 22, 2010

By: /s/ Barbara E. Campbell

Barbara E. Campbell  
Treasurer

Date: February 22, 2010