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Eaton Vance Enhanced Equity Income Fund II

Form N-Q

May 28, 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
811-21670
Investment Company Act File Number
Eaton Vance Enhanced Equity Income Fund II
(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)
December 31
Date of Fiscal Year End
March 31, 2010
Date of Reporting Period

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Signatures

EX-99.CERT Section 302 Certification

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Item 1. Schedule of Investments

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as of March 31, 2010

PORTFOLIO OF INVESTMENTS (Unaudited)**Common Stocks 102.5%****Security****Aerospace & Defense 2.2%**

General Dynamics Corp.

Lockheed Martin Corp.

Shares**Value**

102,885 \$ 7,942,722

71,800 5,975,196

\$ 13,917,918**Air Freight & Logistics 0.8%**

FedEx Corp.

55,167 \$ 5,152,598

\$ 5,152,598**Beverages 4.1%**

Coca-Cola Co. (The)

PepsiCo, Inc.

180,872 \$ 9,947,960

242,245 16,026,929

\$ 25,974,889**Biotechnology 2.2%**Amgen, Inc.⁽²⁾Celgene Corp.⁽²⁾

169,415 \$ 10,124,241

58,743 3,639,716

\$ 13,763,957**Capital Markets 0.9%**

Goldman Sachs Group, Inc.

35,046 \$ 5,979,899

\$ 5,979,899**Chemicals 0.7%**

Air Products and Chemicals, Inc.

Monsanto Co.

24,411 \$ 1,805,193

32,878 2,348,147

\$ 4,153,340**Commercial Banks 1.7%**

PNC Financial Services Group, Inc.

U.S. Bancorp

Wells Fargo & Co.

52,840 \$ 3,154,548

123,773 3,203,245

145,818 4,537,856

\$ 10,895,649

Commercial Services & Supplies 0.9%

| | | | |
|------------------------|---------|----|------------------|
| Waste Management, Inc. | 159,167 | \$ | 5,480,120 |
| | | \$ | 5,480,120 |

Communications Equipment 6.0%

| | | | |
|------------------------------------|---------|----|-------------------|
| Cisco Systems, Inc. ⁽²⁾ | 929,599 | \$ | 24,197,462 |
| QUALCOMM, Inc. | 328,360 | | 13,787,836 |
| | | \$ | 37,985,298 |

Computers & Peripherals 10.2%

| | | | |
|---------------------------------------|---------|----|-------------------|
| Apple, Inc. ⁽²⁾ | 110,608 | \$ | 25,985,138 |
| Hewlett-Packard Co. | 292,214 | | 15,531,174 |
| International Business Machines Corp. | 183,276 | | 23,505,147 |
| | | \$ | 65,021,459 |

Consumer Finance 0.7%

| | | | |
|----------------------|---------|----|------------------|
| American Express Co. | 111,832 | \$ | 4,614,188 |
| | | \$ | 4,614,188 |

Diversified Financial Services 0.5%

| | | | |
|-----------------------|---------|----|------------------|
| Bank of America Corp. | 174,724 | \$ | 3,118,823 |
| | | \$ | 3,118,823 |

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| | Shares | Value |
|--|---------------|----------------------|
| Security | | |
| Diversified Telecommunication Services 0.2% | | |
| AT&T, Inc. | 40,247 | \$ 1,039,983 |
| | | \$ 1,039,983 |
| Electric Utilities 0.3% | | |
| American Electric Power Co., Inc. | 54,914 | \$ 1,876,961 |
| | | \$ 1,876,961 |
| Electrical Equipment 1.3% | | |
| Emerson Electric Co. | 169,696 | \$ 8,542,497 |
| | | \$ 8,542,497 |
| Electronic Equipment, Instruments & Components 1.3% | | |
| Corning, Inc. | 422,911 | \$ 8,547,031 |
| | | \$ 8,547,031 |
| Energy Equipment & Services 0.8% | | |
| Schlumberger, Ltd. | 82,554 | \$ 5,238,877 |
| | | \$ 5,238,877 |
| Food & Staples Retailing 3.2% | | |
| CVS Caremark Corp. | 184,998 | \$ 6,763,527 |
| Wal-Mart Stores, Inc. | 250,205 | 13,911,398 |
| | | \$ 20,674,925 |
| Food Products 2.6% | | |
| Nestle SA | 134,351 | \$ 6,884,410 |
| Nestle SA ADR | 188,169 | 9,634,253 |
| | | \$ 16,518,663 |
| Health Care Equipment & Supplies 3.6% | | |
| Baxter International, Inc. | 85,459 | \$ 4,973,714 |
| Boston Scientific Corp. ⁽²⁾ | 390,598 | 2,820,117 |
| Covidien PLC | 79,571 | 4,000,830 |
| HeartWare International, Inc. ⁽²⁾ | 83,850 | 3,728,205 |
| Thoratec Corp. ⁽²⁾ | 119,294 | 3,990,384 |
| Zimmer Holdings, Inc. ⁽²⁾ | 61,450 | 3,637,840 |
| | | \$ 23,151,090 |

| | | |
|--|---------|----------------------|
| Health Care Providers & Services 1.3% | | |
| AmerisourceBergen Corp. | 76,776 | \$ 2,220,362 |
| Fresenius Medical Care AG & Co. KGaA ADR | 51,174 | 2,873,932 |
| VCA Antech, Inc. ⁽²⁾ | 124,509 | 3,489,987 |
| | | \$ 8,584,281 |
| Hotels, Restaurants & Leisure 1.3% | | |
| Carnival Corp. | 109,710 | \$ 4,265,525 |
| McDonald's Corp. | 58,970 | 3,934,478 |
| | | \$ 8,200,003 |
| Household Durables 1.7% | | |
| Tempur-Pedic International, Inc. ⁽²⁾ | 132,738 | \$ 4,003,378 |
| Whirlpool Corp. | 79,456 | 6,932,536 |
| | | \$ 10,935,914 |
| Household Products 3.9% | | |
| Colgate-Palmolive Co. | 126,071 | \$ 10,748,814 |
| Procter & Gamble Co. | 226,908 | 14,356,469 |
| | | \$ 25,105,283 |
| Industrial Conglomerates 1.7% | | |
| 3M Co. | 41,657 | \$ 3,481,275 |
| General Electric Co. | 417,869 | 7,605,216 |
| | | \$ 11,086,491 |

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| | Shares | Value |
|--|---------------|----------------------|
| Security | | |
| Insurance 1.2% | | |
| Lincoln National Corp. | 110,919 | \$ 3,405,213 |
| Prudential Financial, Inc. | 74,096 | 4,482,808 |
| | | \$ 7,888,021 |
| Internet & Catalog Retail 1.5% | | |
| Amazon.com, Inc. ⁽²⁾ | 69,030 | \$ 9,369,442 |
| | | \$ 9,369,442 |
| Internet Software & Services 4.1% | | |
| Akamai Technologies, Inc. ⁽²⁾ | 134,818 | \$ 4,234,633 |
| Google, Inc., Class A ⁽²⁾ | 28,194 | 15,986,280 |
| VeriSign, Inc. ⁽²⁾ | 230,592 | 5,997,698 |
| | | \$ 26,218,611 |
| IT Services 1.1% | | |
| MasterCard, Inc., Class A | 26,948 | \$ 6,844,792 |
| | | \$ 6,844,792 |
| Life Sciences Tools & Services 0.6% | | |
| Thermo Fisher Scientific, Inc. ⁽²⁾ | 80,434 | \$ 4,137,525 |
| | | \$ 4,137,525 |
| Machinery 3.5% | | |
| Danaher Corp. | 94,624 | \$ 7,561,404 |
| Deere & Co. | 57,156 | 3,398,496 |
| Illinois Tool Works, Inc. | 166,531 | 7,886,908 |
| PACCAR, Inc. | 81,661 | 3,539,188 |
| | | \$ 22,385,996 |
| Media 1.7% | | |
| Walt Disney Co. (The) | 302,205 | \$ 10,549,977 |
| | | \$ 10,549,977 |
| Metals & Mining 3.5% | | |
| BHP Billiton, Ltd. ADR | 48,605 | \$ 3,903,954 |
| Freeport-McMoRan Copper & Gold, Inc. | 61,433 | 5,132,113 |
| Goldcorp, Inc. | 269,142 | 10,017,465 |
| United States Steel Corp. | 52,143 | 3,312,123 |

| | | |
|---|---------|----------------------|
| | | \$ 22,365,655 |
| Multi-Utilities 0.4% | | |
| Public Service Enterprise Group, Inc. | 90,829 | \$ 2,681,272 |
| | | \$ 2,681,272 |
| Multiline Retail 0.7% | | |
| Target Corp. | 81,684 | \$ 4,296,578 |
| | | \$ 4,296,578 |
| Oil, Gas & Consumable Fuels 4.0% | | |
| Anadarko Petroleum Corp. | 68,600 | \$ 4,996,138 |
| Apache Corp. | 31,120 | 3,158,680 |
| Chevron Corp. | 45,000 | 3,412,350 |
| Exxon Mobil Corp. | 64,194 | 4,299,714 |
| Hess Corp. | 43,844 | 2,742,442 |
| Occidental Petroleum Corp. | 46,920 | 3,966,617 |
| Peabody Energy Corp. | 69,335 | 3,168,610 |
| | | \$ 25,744,551 |
| Personal Products 0.7% | | |
| Avon Products, Inc. | 125,015 | \$ 4,234,258 |
| | | \$ 4,234,258 |

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| | Shares | Value |
|--|---------------|----------------------|
| Security | | |
| Pharmaceuticals 7.8% | | |
| Abbott Laboratories | 188,083 | \$ 9,908,212 |
| Bristol-Myers Squibb Co. | 264,864 | 7,071,869 |
| Johnson & Johnson | 186,102 | 12,133,850 |
| Merck & Co., Inc. | 51,368 | 1,918,595 |
| Pfizer, Inc. | 463,910 | 7,956,057 |
| Shire PLC ADR | 83,351 | 5,497,832 |
| Teva Pharmaceutical Industries, Ltd. ADR | 81,359 | 5,132,126 |
| | | \$ 49,618,541 |
| Real Estate Investment Trusts (REITs) 0.2% | | |
| AvalonBay Communities, Inc. | 9,707 | \$ 838,199 |
| Boston Properties, Inc. | 7,325 | 552,598 |
| | | \$ 1,390,797 |
| Road & Rail 0.8% | | |
| CSX Corp. | 97,386 | \$ 4,956,947 |
| | | \$ 4,956,947 |
| Semiconductors & Semiconductor Equipment 3.7% | | |
| ASML Holding NV ADR | 118,976 | \$ 4,211,750 |
| Atheros Communications, Inc. ⁽²⁾ | 207,536 | 8,033,719 |
| Broadcom Corp., Class A | 57,015 | 1,891,758 |
| Intel Corp. | 333,428 | 7,422,107 |
| Tessera Technologies, Inc. ⁽²⁾ | 108,631 | 2,203,037 |
| | | \$ 23,762,371 |
| Software 6.4% | | |
| McAfee, Inc. ⁽²⁾ | 95,250 | \$ 3,822,382 |
| Microsoft Corp. | 876,835 | 25,664,960 |
| Oracle Corp. | 366,140 | 9,406,137 |
| Salesforce.com, Inc. ⁽²⁾ | 28,619 | 2,130,685 |
| | | \$ 41,024,164 |
| Specialty Retail 3.5% | | |
| Best Buy Co., Inc. | 128,395 | \$ 5,461,923 |
| Gap, Inc. (The) | 102,897 | 2,377,950 |
| Home Depot, Inc. | 185,056 | 5,986,562 |
| Staples, Inc. | 200,572 | 4,691,379 |
| TJX Companies, Inc. (The) | 85,972 | 3,655,529 |
| | | \$ 22,173,343 |

| | | |
|--|---------|-----------------------|
| Textiles, Apparel & Luxury Goods 1.4% | | |
| Hanesbrands, Inc. ⁽²⁾ | 155,217 | \$ 4,318,137 |
| NIKE, Inc., Class B | 59,931 | 4,404,928 |
| | | \$ 8,723,065 |
| Tobacco 1.1% | | |
| Philip Morris International, Inc. | 131,043 | \$ 6,835,203 |
| | | \$ 6,835,203 |
| Wireless Telecommunication Services 0.5% | | |
| American Tower Corp., Class A ⁽²⁾ | 80,167 | \$ 3,415,916 |
| | | \$ 3,415,916 |
| Total Common Stocks | | |
| (identified cost \$554,657,004) | | \$ 654,177,162 |

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| Description | Interest (000 s omitted) | Value |
|---|-------------------------------------|--------------|
| Eaton Vance Cash Reserves Fund, LLC, 0.17% ⁽³⁾ | \$ 7,376 | \$ 7,376,401 |

Total Short-Term Investments
(identified cost \$7,376,401) **\$ 7,376,401**

Total Investments 103.6%
(identified cost \$562,033,405) **\$ 661,553,563**

Covered Call Options Written (3.6)%

| Security | Number of Contracts | Strike Price | Expiration Date | Value |
|-----------------------------------|--------------------------------|-------------------------|----------------------------|--------------|
| 3M Co. | 250 | \$ 85.00 | 4/17/10 | \$ (13,250) |
| Abbott Laboratories | 1,225 | 55.00 | 5/22/10 | (49,000) |
| Air Products and Chemicals, Inc. | 170 | 75.00 | 6/19/10 | (45,475) |
| Akamai Technologies, Inc. | 880 | 26.00 | 5/22/10 | (511,280) |
| Amazon.com, Inc. | 415 | 130.00 | 4/17/10 | (288,425) |
| American Electric Power Co., Inc. | 385 | 35.00 | 5/22/10 | (13,475) |
| American Express Co. | 670 | 43.00 | 4/17/10 | (14,740) |
| American Tower Corp., Class A | 485 | 45.00 | 4/17/10 | (7,275) |
| AmerisourceBergen Corp. | 500 | 30.00 | 5/22/10 | (25,000) |
| Amgen, Inc. | 1,020 | 57.50 | 4/17/10 | (267,240) |
| Amgen, Inc. | 375 | 60.00 | 5/22/10 | (75,000) |
| Anadarko Petroleum Corp. | 550 | 70.00 | 5/22/10 | (286,000) |
| Apache Corp. | 190 | 110.00 | 4/17/10 | (2,850) |
| Apple, Inc. | 145 | 200.00 | 4/17/10 | (510,255) |
| Apple, Inc. | 740 | 210.00 | 4/17/10 | (1,872,200) |
| ASML Holding NV ADR | 715 | 35.00 | 4/17/10 | (100,100) |
| AT&T, Inc. | 260 | 25.00 | 4/17/10 | (22,620) |
| Atheros Communications, Inc. | 1,560 | 37.50 | 6/19/10 | (546,000) |
| Avon Products, Inc. | 815 | 31.00 | 4/17/10 | (232,275) |
| Bank of America Corp. | 1,400 | 17.00 | 5/22/10 | (179,200) |
| Baxter International, Inc. | 555 | 57.50 | 5/22/10 | (122,100) |
| Best Buy Co., Inc. | 835 | 37.00 | 4/17/10 | (457,580) |
| BHP Billiton, Ltd. ADR | 315 | 80.00 | 5/22/10 | (116,550) |
| Boston Properties, Inc. | 3 | 70.00 | 4/17/10 | (1,776) |
| Boston Scientific Corp. | 2,540 | 8.00 | 5/22/10 | (50,800) |
| Bristol-Myers Squibb Co. | 1,855 | 26.00 | 6/19/10 | (278,250) |
| Broadcom Corp., Class A | 370 | 32.00 | 5/22/10 | (88,060) |
| Carnival Corp. | 660 | 35.00 | 4/17/10 | (257,400) |

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| | | | | |
|---|-------|-------|---------|-----------|
| Celgene Corp. | 115 | 57.50 | 4/17/10 | (52,900) |
| Celgene Corp. | 270 | 60.00 | 4/17/10 | (67,500) |
| Chevron Corp. | 315 | 75.00 | 6/19/10 | (85,995) |
| Cisco Systems, Inc. | 2,330 | 24.00 | 4/17/10 | (466,000) |
| Cisco Systems, Inc. | 5,110 | 25.00 | 4/17/10 | (592,760) |
| Coca Cola Co. (The) | 1,175 | 55.00 | 5/22/10 | (159,800) |
| Colgate-Palmolive Co. | 1,010 | 80.00 | 5/22/10 | (570,650) |
| Corning, Inc. | 2,750 | 18.00 | 5/22/10 | (665,500) |
| Covidien PLC | 480 | 50.00 | 4/17/10 | (48,000) |
| CSX Corp. | 635 | 47.00 | 5/22/10 | (292,100) |
| CVS Caremark Corp. | 1,205 | 34.00 | 5/22/10 | (373,550) |
| Danaher Corp. | 710 | 80.00 | 6/19/10 | (198,800) |
| Deere & Co. | 430 | 60.00 | 6/19/10 | (136,310) |
| Emerson Electric Co. | 1,275 | 48.00 | 6/19/10 | (446,250) |
| Exxon Mobil Corp. | 385 | 70.00 | 4/17/10 | (4,235) |
| FedEx Corp. | 110 | 80.00 | 4/17/10 | (148,500) |
| FedEx Corp. | 335 | 85.00 | 4/17/10 | (284,750) |
| Freeport-McMoRan Copper & Gold, Inc. | 400 | 80.00 | 5/22/10 | (264,000) |
| Fresenius Medical Care AG & Co. KGaA ADR | 310 | 55.00 | 4/17/10 | (46,500) |

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| Security | Number of Contracts | Strike Price | Expiration Date | Value |
|--|--------------------------------|-------------------------|----------------------------|--------------|
| Gap, Inc. (The) | 775 | \$ 23.00 | 6/19/10 | \$ (91,450) |
| General Dynamics Corp. | 670 | 70.00 | 5/22/10 | (509,200) |
| General Electric Co. | 3,135 | 18.00 | 6/19/10 | (313,500) |
| Goldman Sachs Group, Inc. | 210 | 170.00 | 4/17/10 | (79,800) |
| Google, Inc., Class A | 200 | 560.00 | 6/19/10 | (609,800) |
| Hanesbrands, Inc. | 935 | 25.00 | 4/17/10 | (285,175) |
| Hess Corp. | 285 | 65.00 | 5/22/10 | (46,740) |
| Hewlett-Packard Co. | 1,900 | 50.00 | 5/22/10 | (741,000) |
| Home Depot, Inc. | 1,205 | 30.00 | 5/22/10 | (308,480) |
| Illinois Tool Works, Inc. | 1,085 | 47.50 | 4/17/10 | (81,375) |
| Intel Corp. | 2,170 | 21.00 | 4/17/10 | (299,460) |
| International Business Machines Corp. | 370 | 125.00 | 4/17/10 | (136,900) |
| International Business Machines Corp. | 1,100 | 135.00 | 4/17/10 | (8,800) |
| Johnson & Johnson | 1,120 | 65.00 | 4/17/10 | (76,160) |
| Lincoln National Corp. | 665 | 28.00 | 4/17/10 | (182,875) |
| Lockheed Martin Corp. | 540 | 85.00 | 6/19/10 | (132,300) |
| MasterCard, Inc., Class A | 200 | 260.00 | 4/17/10 | (51,000) |
| McAfee, Inc. | 715 | 40.00 | 6/19/10 | (139,425) |
| McDonald's Corp. | 140 | 65.00 | 4/17/10 | (26,880) |
| McDonald's Corp. | 305 | 67.50 | 6/19/10 | (43,920) |
| Merck & Co., Inc. | 310 | 40.00 | 4/17/10 | (1,550) |
| Microsoft Corp. | 875 | 29.00 | 4/17/10 | (56,000) |
| Microsoft Corp. | 4,825 | 30.00 | 4/17/10 | (110,975) |
| Microsoft Corp. | 1,315 | 30.00 | 5/22/10 | (93,365) |
| Monsanto Co. | 200 | 85.00 | 4/17/10 | (1,400) |
| NIKE, Inc., Class B | 360 | 65.00 | 4/17/10 | (309,600) |
| Occidental Petroleum Corp. | 305 | 80.00 | 5/22/10 | (192,150) |
| Oracle Corp. | 2,750 | 25.00 | 6/19/10 | (398,750) |
| PACCAR, Inc. | 530 | 36.00 | 5/22/10 | (402,800) |
| Peabody Energy Corp. | 350 | 46.00 | 4/17/10 | (49,000) |
| PepsiCo, Inc. | 1,455 | 62.50 | 4/17/10 | (552,900) |
| Pfizer, Inc. | 3,250 | 18.00 | 6/19/10 | (97,500) |
| Philip Morris International, Inc. | 982 | 50.00 | 6/19/10 | (328,970) |
| PNC Financial Services Group, Inc. | 345 | 55.00 | 5/22/10 | (163,875) |
| Procter & Gamble Co. | 1,815 | 62.50 | 4/17/10 | (206,910) |
| Prudential Financial, Inc. | 555 | 55.00 | 6/19/10 | (371,850) |
| Public Service Enterprise Group, Inc. | 635 | 30.00 | 6/19/10 | (47,625) |
| QUALCOMM, Inc. | 2,135 | 41.00 | 4/17/10 | (296,765) |
| Salesforce.com, Inc. | 215 | 75.00 | 5/22/10 | (79,980) |
| Schlumberger, Ltd. | 540 | 65.00 | 5/22/10 | (105,840) |
| Shire PLC ADR | 505 | 60.00 | 4/17/10 | (308,050) |
| Staples, Inc. | 1,405 | 24.00 | 6/19/10 | (115,913) |
| Target Corp. | 490 | 50.00 | 4/17/10 | (130,340) |
| Tessera Technologies, Inc. | 710 | 20.00 | 4/17/10 | (67,450) |
| Teva Pharmaceutical Industries, Ltd. ADR | 240 | 60.00 | 4/17/10 | (78,960) |
| Teva Pharmaceutical Industries, Ltd. ADR | 370 | 60.00 | 6/19/10 | (159,100) |

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| | | | | |
|--------------------------------|-------|-------|---------|-----------|
| Thermo Fisher Scientific, Inc. | 565 | 50.00 | 6/19/10 | (186,450) |
| TJX Companies, Inc. (The) | 515 | 40.00 | 4/17/10 | (136,475) |
| U.S. Bancorp | 930 | 25.00 | 6/19/10 | (158,100) |
| United States Steel Corp. | 340 | 55.00 | 4/17/10 | (300,900) |
| VCA Antech, Inc. | 935 | 25.00 | 6/19/10 | (313,225) |
| VeriSign, Inc. | 1,730 | 26.00 | 6/19/10 | (224,900) |
| Wal-Mart Stores, Inc. | 500 | 52.50 | 4/17/10 | (157,000) |
| Wal-Mart Stores, Inc. | 1,255 | 55.00 | 6/19/10 | (228,410) |
| Walt Disney Co. (The) | 1,965 | 31.00 | 4/17/10 | (786,000) |
| Waste Management, Inc. | 955 | 35.00 | 4/17/10 | (19,100) |
| Wells Fargo & Co. | 875 | 29.00 | 4/17/10 | (189,000) |

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| Security | Number of Contracts | Strike Price | Expiration Date | Value |
|--|--------------------------------|-------------------------|----------------------------|------------------------|
| Whirlpool Corp. | 595 | \$ 90.00 | 6/19/10 | \$ (224,315) |
| Zimmer Holdings, Inc. | 430 | 60.00 | 6/19/10 | (95,675) |
| Total Covered Call Options Written (premiums received \$18,353,831) | | | | \$ (23,249,684) |
| Other Assets, Less Liabilities 0.0% | | | | \$ (21,701) |
| Net Assets 100.0% | | | | \$ 638,282,178 |

The percentage shown for each investment category in the Portfolio of Investments is 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 March 31, 2010 has been segregated 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 March 31, 2010. Net income allocated from the investment in Eaton Vance Cash Reserves Fund, LLC and Cash Management Portfolio, another affiliated investment company, for the fiscal year to date ended March 31, 2010 was \$2,448 and \$0, respectively.

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The cost and unrealized appreciation (depreciation) of investments of the Fund at March 31, 2010, as determined on a federal income tax basis, were as follows:

| | |
|------------------------------------|-----------------------|
| Aggregate cost | \$ 565,509,870 |
| Gross unrealized appreciation | \$ 114,519,937 |
| Gross unrealized depreciation | (18,476,244) |
| Net unrealized appreciation | \$ 96,043,693 |

Written call options activity for the fiscal year to date ended March 31, 2010 was as follows:

| | Number of Contracts | Premiums Received |
|---|--------------------------------|------------------------------|
| Outstanding, beginning of period | 108,628 | \$ 21,426,773 |
| Options written | 105,448 | 20,013,187 |
| Options terminated in closing purchase transactions | (82,494) | (16,369,778) |
| Options exercised | (706) | (159,085) |
| Options expired | (34,861) | (6,557,266) |
| Outstanding, end of period | 96,015 | \$ 18,353,831 |

At March 31, 2010, 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 objectives. 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 March 31, 2010, 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 \$23,249,684.

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 March 31, 2010, the inputs used in valuing the Fund's investments, which are carried at value, were as follows:

| Asset Description | Quoted Prices in Active Markets for Identical Assets (Level 1) | Significant Other Observable Inputs (Level 2) | Significant Unobservable Inputs (Level 3) | Total |
|------------------------------|---|--|--|------------------------|
| Common Stocks | | | | |
| Consumer Discretionary | \$ 74,248,322 | \$ | \$ | \$ 74,248,322 |
| Consumer Staples | 92,458,811 | 6,884,410 | | 99,343,221 |
| Energy | 30,983,428 | | | 30,983,428 |
| Financials | 33,887,377 | | | 33,887,377 |
| Health Care | 99,255,376 | 18 | | 99,255,394 |
| Industrials | 71,522,567 | | | 71,522,567 |
| Information Technology | 209,403,726 | | | 209,403,726 |
| Materials | 26,518,995 | | | 26,518,995 |
| Telecommunication Services | 4,455,899 | | | 4,455,899 |
| Utilities | 4,558,233 | | | 4,558,233 |
| Total Common Stocks | \$ 647,292,734 | \$ 6,884,428* | \$ | \$ 654,177,162 |
| Short-Term Investments | \$ | \$ 7,376,401 | \$ | \$ 7,376,401 |
| Total Investments | \$ 647,292,734 | \$ 14,260,829 | \$ | \$ 661,553,563 |
| Liability Description | | | | |
| Covered Call Options Written | \$ (23,249,684) | \$ | \$ | \$ (23,249,684) |
| Total | \$ (23,249,684) | \$ | \$ | \$ (23,249,684) |

* Includes foreign equity securities whose values were adjusted to reflect market trading that occurred after the close of trading in their applicable foreign markets.

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The Fund held no investments or other financial instruments as of December 31, 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 II

By: /s/ Duncan W. Richardson

Duncan W. Richardson
President

Date: May 24, 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: May 24, 2010

By: /s/ Barbara E. Campbell

Barbara E. Campbell
Treasurer

Date: May 24, 2010