

Eaton Vance Enhanced Equity Income Fund
Form N-Q
February 29, 2008

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM N-Q

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

Investment Company Act File Number

811-21614

Eaton Vance Enhanced Equity Income Fund

(Exact Name of Registrant as Specified in Charter)

The Eaton Vance Building,

255 State Street, Boston, Massachusetts 02109

(Address of Principal Executive Offices)

02109

(Zip code)

Maureen A. Gemma

Eaton Vance Management, 255 State Street, Boston, Massachusetts 02109

(Name and Address of Agent for Service)

Registrant's Telephone Number, Including Area
Code:

(617) 482-8260

Date of Fiscal Year End:

September 30

Date of Reporting Period:

December 31, 2007

Item 1. Schedule of Investments

Eaton Vance Enhanced Equity Income Fund

as of December 31, 2007

PORTFOLIO OF INVESTMENTS (Unaudited)

Common Stocks (1) 102.3%

| Security | Shares | Value |
|--|---------|----------------------|
| Aerospace & Defense 4.8% | | |
| Boeing Co. (The) | 96,229 | \$ 8,416,188 |
| General Dynamics Corp. | 120,840 | 10,753,552 |
| Northrop Grumman Corp. | 113,058 | 8,890,881 |
| United Technologies Corp. | 138,502 | 10,600,943 |
| | | \$ 38,661,564 |
| Auto Components 0.8% | | |
| Johnson Controls, Inc. | 177,538 | \$ 6,398,470 |
| | | \$ 6,398,470 |
| Beverages 1.3% | | |
| PepsiCo, Inc. | 141,991 | \$ 10,777,117 |
| | | \$ 10,777,117 |
| Biotechnology 1.3% | | |
| Biogen Idec, Inc. (2) | 76,783 | \$ 4,370,488 |
| BioMarin Pharmaceutical, Inc. (2) | 184,822 | 6,542,699 |
| | | \$ 10,913,187 |
| Capital Markets 5.7% | | |
| Bank of New York Mellon Corp. (The) | 278,201 | \$ 13,565,081 |
| Charles Schwab Corp. | 376,779 | 9,626,703 |
| Invesco PLC ADR | 340,487 | 10,684,482 |
| Merrill Lynch & Co., Inc. | 75,030 | 4,027,610 |
| T. Rowe Price Group, Inc. | 134,109 | 8,164,556 |
| | | \$ 46,068,432 |
| Chemicals 3.1% | | |
| Airgas, Inc. | 147,466 | \$ 7,684,453 |
| Ecolab, Inc. | 179,929 | 9,214,164 |
| PPG Industries, Inc. | 113,743 | 7,988,171 |
| | | \$ 24,886,788 |
| Commercial Services & Supplies 0.7% | | |
| Manpower, Inc. | 105,420 | \$ 5,998,398 |
| | | \$ 5,998,398 |
| Communications Equipment 2.7% | | |
| Cisco Systems, Inc. (2) | 512,752 | \$ 13,880,197 |
| Corning, Inc. | 331,610 | 7,955,324 |
| | | \$ 21,835,521 |
| Computer Peripherals 4.6% | | |
| Apple, Inc. (2) | 98,591 | \$ 19,528,905 |
| EMC Corp. (2) | 420,330 | 7,788,715 |
| International Business Machines Corp. | 89,745 | 9,701,435 |
| | | \$ 37,019,055 |
| Consumer Finance 0.7% | | |
| American Express Co. | 107,500 | \$ 5,592,150 |
| | | \$ 5,592,150 |
| Diversified Consumer Services 0.7% | | |
| Apollo Group, Inc., Class A (2) | 83,927 | \$ 5,887,479 |
| | | \$ 5,887,479 |
| Diversified Financial Services 2.3% | | |
| Bank of America Corp. | 308,760 | \$ 12,739,438 |
| JPMorgan Chase & Co. | 142,273 | 6,210,216 |
| | | \$ 18,949,654 |

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| | | | |
|---|-------------|---------|----------------------|
| Diversified Telecommunication Services | 3.0% | | |
| AT&T, Inc. | | 333,976 | \$ 13,880,043 |
| Verizon Communications, Inc. | | 241,753 | 10,562,189 |
| | | | \$ 24,442,232 |
| Electric Utilities | 1.3% | | |
| E. ON AG ADR | | 152,148 | \$ 10,810,115 |
| | | | \$ 10,810,115 |

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| | | | |
|---|-------------|---------|----------------------|
| Electrical Equipment | 1.3% | | |
| Emerson Electric Co. | | 188,479 | \$ 10,679,220 |
| | | | \$ 10,679,220 |
| Energy Equipment & Services | 4.1% | | |
| Diamond Offshore Drilling, Inc. | | 54,768 | \$ 7,777,056 |
| Rowan Cos., Inc. | | 169,528 | 6,689,575 |
| Schlumberger, Ltd. | | 104,918 | 10,320,784 |
| Transocean, Inc. (2) | | 58,027 | 8,306,565 |
| | | | \$ 33,093,980 |
| Food & Staples Retailing | 4.3% | | |
| Safeway, Inc. | | 218,077 | \$ 7,460,414 |
| Sysco Corp. | | 246,583 | 7,695,855 |
| Walgreen Co. | | 212,298 | 8,084,308 |
| Wal-Mart Stores, Inc. | | 248,820 | 11,826,415 |
| | | | \$ 35,066,992 |
| Food Products | 2.5% | | |
| Cadbury Schweppes PLC ADR | | 185,281 | \$ 9,147,323 |
| Kraft Foods, Inc., Class A | | 46,503 | 1,517,393 |
| William Wrigley Jr. Co. | | 164,769 | 9,647,225 |
| | | | \$ 20,311,941 |
| Health Care Equipment & Supplies | 4.5% | | |
| Edwards Lifesciences Corp. (2) | | 140,662 | \$ 6,469,045 |
| Hospira, Inc. (2) | | 250,621 | 10,686,479 |
| Medtronic, Inc. | | 219,888 | 11,053,770 |
| Respironics, Inc. (2) | | 121,442 | 7,952,022 |
| | | | \$ 36,161,316 |
| Hotels, Restaurants & Leisure | 2.3% | | |
| McDonald's Corp. | | 157,996 | \$ 9,307,544 |
| Yum! Brands, Inc. | | 246,476 | 9,432,637 |
| | | | \$ 18,740,181 |
| Household Products | 3.4% | | |
| Colgate-Palmolive Co. | | 109,860 | \$ 8,564,686 |
| Energizer Holdings, Inc. (2) | | 79,963 | 8,966,251 |
| Procter & Gamble Co. | | 135,566 | 9,953,256 |
| | | | \$ 27,484,193 |
| Industrial Conglomerates | 2.0% | | |
| General Electric Co. | | 441,552 | \$ 16,368,333 |
| | | | \$ 16,368,333 |
| Insurance | 2.7% | | |
| Lincoln National Corp. | | 127,888 | \$ 7,445,639 |
| Travelers Cos., Inc. (The) | | 160,846 | 8,653,515 |
| Willis Group Holdings, Ltd. | | 150,619 | 5,719,003 |
| | | | \$ 21,818,157 |
| Internet Software & Services | 1.6% | | |
| Akamai Technologies, Inc. (2) | | 107,920 | \$ 3,734,032 |
| Google, Inc., Class A (2) | | 13,598 | 9,402,745 |
| | | | \$ 13,136,777 |
| IT Services | 1.2% | | |
| Paychex, Inc. | | 274,080 | \$ 9,927,178 |
| | | | \$ 9,927,178 |
| Life Sciences Tools & Services | 1.4% | | |
| Thermo Fisher Scientific, Inc. (2) | | 195,523 | \$ 11,277,767 |
| | | | \$ 11,277,767 |
| Machinery | 2.0% | | |
| Danaher Corp. | | 87,974 | \$ 7,718,839 |
| Illinois Tool Works, Inc. | | 155,695 | 8,335,910 |
| | | | \$ 16,054,749 |
| Media | 0.8% | | |

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| | | | |
|-------------------|---------|----|------------------|
| Time Warner, Inc. | 404,114 | \$ | 6,671,922 |
| | | \$ | 6,671,922 |

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| | | | |
|--|---------|----|--------------------|
| Metals & Mining 5.4% | | | |
| Alcoa, Inc. | 234,516 | \$ | 8,571,560 |
| BHP Billiton, Ltd. ADR | 160,266 | | 11,225,031 |
| Freeport-McMoRan Copper & Gold, Inc., Class B | 100,829 | | 10,328,923 |
| Goldcorp, Inc. | 398,640 | | 13,525,855 |
| | | \$ | 43,651,369 |
| Multiline Retail 0.8% | | | |
| Target Corp. | 121,960 | \$ | 6,098,000 |
| | | \$ | 6,098,000 |
| Multi-Utilities 1.4% | | | |
| Dominion Resources, Inc. | 234,834 | \$ | 11,142,873 |
| | | \$ | 11,142,873 |
| Oil, Gas & Consumable Fuels 10.9% | | | |
| Anadarko Petroleum Corp. | 165,800 | \$ | 10,891,402 |
| ConocoPhillips | 97,510 | | 8,610,133 |
| Exxon Mobil Corp. | 327,900 | | 30,720,951 |
| Hess Corp. | 136,720 | | 13,789,579 |
| Occidental Petroleum Corp. | 69,377 | | 5,341,335 |
| Suncor Energy, Inc. | 92,217 | | 10,026,754 |
| Williams Cos., Inc. | 249,298 | | 8,919,882 |
| | | \$ | 88,300,036 |
| Pharmaceuticals 4.4% | | | |
| Allergan, Inc. | 131,077 | \$ | 8,420,387 |
| Johnson & Johnson | 167,521 | | 11,173,651 |
| Schering-Plough Corp. | 398,047 | | 10,603,972 |
| Shire PLC ADR | 73,860 | | 5,092,647 |
| | | \$ | 35,290,657 |
| Real Estate Investment Trusts (REITs) 0.9% | | | |
| AvalonBay Communities, Inc. | 74,382 | \$ | 7,002,321 |
| | | \$ | 7,002,321 |
| Semiconductors & Semiconductor Equipment 3.3% | | | |
| Applied Materials, Inc. | 404,747 | \$ | 7,188,307 |
| Broadcom Corp., Class A (2) | 144,149 | | 3,768,055 |
| Intel Corp. | 220,758 | | 5,885,408 |
| Texas Instruments, Inc. | 284,807 | | 9,512,554 |
| | | \$ | 26,354,324 |
| Software 3.7% | | | |
| Microsoft Corp. | 492,092 | \$ | 17,518,475 |
| Oracle Corp. (2) | 368,317 | | 8,316,598 |
| VMware, Inc., Class A (2) | 47,575 | | 4,043,399 |
| | | \$ | 29,878,472 |
| Specialty Retail 0.9% | | | |
| Staples, Inc. | 332,272 | \$ | 7,665,515 |
| | | \$ | 7,665,515 |
| Textiles, Apparel & Luxury Goods 1.4% | | | |
| Nike, Inc., Class B | 173,793 | \$ | 11,164,462 |
| | | \$ | 11,164,462 |
| Tobacco 2.1% | | | |
| Altria Group, Inc. | 167,488 | \$ | 12,658,743 |
| Loews Corp.-Carolina Group | 48,506 | | 4,137,562 |
| | | \$ | 16,796,305 |
| Total Common Stocks | | | |
| (identified cost \$775,701,034) | | \$ | 828,377,202 |
| Short-Term Investments 2.4% | | | |

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| Description | Interest (000 s omitted) | Value |
|---|-----------------------------|-----------------------|
| Investment in Cash Management Portfolio, 4.58% (3) | \$ 19,029 | \$ 19,028,545 |
| Total Short-Term Investments (identified cost \$19,028,545) | | \$ 19,028,545 |
| Total Investments 104.7% (identified cost \$794,729,579) | | \$ 847,405,747 |

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Covered Call Options Written (3.2%)

| Security | Number of Contracts | Strike Price | Expiration Date | Value |
|--|---------------------|--------------|-----------------|--------------|
| Airgas, Inc. | 1,456 | \$ 50.00 | 1/19/2008 | \$ (436,800) |
| Akamai Technologies, Inc. | 810 | 40.00 | 2/16/2008 | (93,150) |
| Alcoa, Inc. | 1,240 | 37.50 | 1/19/2008 | (117,800) |
| Allergan, Inc. | 1,295 | 62.50 | 1/19/2008 | (372,960) |
| Alltel Corp. | 219 | 70.00 | 1/19/2008 | (33,507) |
| American Express Co. | 610 | 60.00 | 1/19/2008 | (3,050) |
| Anadarko Petroleum Corp. | 1,170 | 60.00 | 2/16/2008 | (854,100) |
| Apple, Inc. | 985 | 180.00 | 1/19/2008 | (2,073,425) |
| Applied Materials, Inc. | 1,990 | 19.00 | 4/19/2008 | (159,200) |
| AT&T, Inc. | 895 | 37.50 | 4/19/2008 | (469,875) |
| AvalonBay Communities, Inc. | 415 | 120.00 | 1/19/2008 | (31,125) |
| Bank of America Corp. | 2,265 | 47.50 | 1/19/2008 | (11,325) |
| BHP Billiton, Ltd. ADR | 1,602 | 80.00 | 2/16/2008 | (168,210) |
| Biogen Idec, Inc. | 540 | 65.00 | 1/19/2008 | (29,700) |
| BioMarin Pharmaceutical, Inc. | 1,395 | 22.50 | 1/19/2008 | (1,883,250) |
| Boeing Co. (The) | 390 | 95.00 | 2/16/2008 | (40,950) |
| Cisco Systems, Inc. | 2,795 | 32.50 | 1/19/2008 | (5,590) |
| Colgate-Palmolive Co. | 690 | 80.00 | 2/16/2008 | (91,770) |
| ConocoPhillips | 730 | 90.00 | 1/19/2008 | (107,310) |
| Corning, Inc. | 2,280 | 25.00 | 2/16/2008 | (205,200) |
| Dominion Resources, Inc. | 1,550 | 45.00 | 1/19/2008 | (434,000) |
| Ecolab, Inc. | 1,799 | 50.00 | 1/19/2008 | (350,805) |
| Edwards Lifesciences Corp. | 760 | 50.00 | 2/16/2008 | (19,000) |
| EMC Corp. | 2,600 | 22.50 | 1/19/2008 | (13,000) |
| Energizer Holdings, Inc. | 435 | 110.00 | 2/16/2008 | (307,110) |
| Exxon Mobil Corp. | 3,279 | 95.00 | 1/19/2008 | (475,455) |
| Freeport-McMoRan Copper & Gold, Inc., Class B | 770 | 115.00 | 2/16/2008 | (218,680) |
| General Dynamics Corp. | 890 | 90.00 | 2/16/2008 | (258,100) |
| General Electric Co. | 3,055 | 40.00 | 3/22/2008 | (137,475) |
| Goldcorp, Inc. | 2,355 | 30.00 | 1/19/2008 | (989,100) |
| Hess Corp. | 1,075 | 75.00 | 2/16/2008 | (2,870,250) |
| Hospira, Inc. | 1,330 | 40.00 | 2/16/2008 | (465,500) |
| Illinois Tool Works, Inc. | 1,556 | 60.00 | 3/22/2008 | (124,480) |
| Intel Corp. | 2,181 | 27.50 | 1/19/2008 | (111,231) |
| International Business Machines Corp. | 670 | 115.00 | 1/19/2008 | (46,900) |
| Johnson & Johnson | 1,655 | 65.00 | 1/19/2008 | (331,000) |
| Johnson Controls, Inc. | 1,075 | 40.00 | 1/19/2008 | (16,125) |
| JPMorgan Chase & Co. | 560 | 45.00 | 1/19/2008 | (36,400) |
| Lincoln National Corp. | 785 | 65.00 | 1/19/2008 | (7,850) |
| Loews Corp.-Carolina Group. | 330 | 90.00 | 1/19/2008 | (9,900) |
| Medtronic, Inc. | 1,340 | 50.00 | 1/19/2008 | (167,500) |
| Merrill Lynch & Co., Inc. | 570 | 60.00 | 1/19/2008 | (25,650) |
| Microsoft Corp. | 4,920 | 32.50 | 1/19/2008 | (1,599,000) |
| Nike, Inc., Class B | 1,465 | 65.00 | 1/19/2008 | (191,915) |
| Northrop Grumman Corp. | 760 | 80.00 | 2/16/2008 | (175,560) |
| Occidental Petroleum Corp. | 530 | 75.00 | 2/16/2008 | (296,800) |
| Oracle Corp. | 3,683 | 22.50 | 3/22/2008 | (607,695) |
| Paychex, Inc. | 775 | 40.00 | 3/22/2008 | (27,125) |
| PepsiCo, Inc. | 1,402 | 70.00 | 1/19/2008 | (900,084) |
| PPG Industries, Inc. | 530 | 70.00 | 2/16/2008 | (151,050) |
| Proctor & Gamble Co. | 1,339 | 70.00 | 1/19/2008 | (482,040) |

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| | | | | |
|---------------------------|-------|--------|-----------|-------------|
| Respironics, Inc. | 1,199 | 50.00 | 1/19/2008 | (1,870,440) |
| Rowan Cos., Inc. | 845 | 37.50 | 1/19/2008 | (228,150) |
| Schering-Plough Corp. | 2,095 | 30.00 | 2/16/2008 | (83,800) |
| Schlumberger, Ltd. | 695 | 95.00 | 2/16/2008 | (514,300) |
| Shire PLC ADR | 729 | 80.00 | 1/19/2008 | (7,290) |
| Staples, Inc. | 2,185 | 25.00 | 3/22/2008 | (174,800) |
| Suncor Energy, Inc. | 625 | 105.00 | 3/22/2008 | (625,000) |
| Sysco Corp. | 805 | 32.50 | 2/16/2008 | (48,300) |
| T. Rowe Price Group, Inc. | 915 | 55.00 | 1/19/2008 | (622,200) |
| Target Corp. | 645 | 65.00 | 1/19/2008 | (3,225) |

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| | | | | | | |
|--|-------|----|--------|-----------|----|---------------------|
| Texas Instruments, Inc. | 1,110 | \$ | 32.50 | 4/19/2008 | \$ | (315,240) |
| Thermo Fisher Scientific, Inc. | 1,955 | | 60.00 | 3/22/2008 | | (342,125) |
| Time Warner, Inc. | 1,005 | | 17.50 | 4/19/2008 | | (60,300) |
| Transocean, Inc. | 590 | | 125.00 | 2/16/2008 | | (607,700) |
| Travelers Cos., Inc. (The) | 1,020 | | 50.00 | 1/19/2008 | | (448,800) |
| United Technologies Corp. | 555 | | 75.00 | 2/16/2008 | | (210,900) |
| VMware, Inc., Class A | 230 | | 80.00 | 1/19/2008 | | (163,300) |
| Williams Cos., Inc. | 1,360 | | 35.00 | 2/16/2008 | | (258,400) |
| Willis Group Holdings, Ltd. | 605 | | 40.00 | 1/19/2008 | | (7,563) |
| Yum! Brands, Inc. | 905 | | 37.50 | 1/19/2008 | | (122,175) |
| Total Covered Call Options Written | | | | | | |
| (premiums received \$22,644,481) | | | | | \$ | (25,749,085) |
| Other Assets, Less Liabilities (1.5)% | | | | | \$ | (11,744,524) |
| Net Assets 100.0% | | | | | \$ | 809,912,138 |

ADR American Depository Receipt

- (1) A portion of each common stock holding has been segregated as collateral for options written.
- (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, 2007. Net income allocated from the Investment in Cash Management Portfolio for the fiscal year to date ended December 31, 2007 was \$379,262.

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The cost and unrealized appreciation (depreciation) of investments of the Fund at December 31, 2007, as determined on a federal income tax basis, were as follows:

| | | |
|------------------------------------|-----------|--------------------|
| Aggregate cost | \$ | 794,716,303 |
| Gross unrealized appreciation | \$ | 71,222,696 |
| Gross unrealized depreciation | | (18,533,252) |
| Net unrealized appreciation | \$ | 52,689,444 |

Written call options activity for the fiscal year to date ended December 31, 2007 was as follows:

| | Number of Contracts | Premiums Received |
|---|--------------------------------|------------------------------|
| Outstanding, beginning of period | 110,709 | \$ 25,984,835 |
| Options written | 85,589 | 18,964,093 |
| Options terminated in closing purchase transactions | (103,274) | (21,540,784) |
| Options expired | (3,155) | (763,663) |
| Outstanding, end of period | 89,869 | \$ 22,644,481 |

At December 31, 2007, the Fund had sufficient cash and/or securities to cover commitments under these contracts.

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.

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 20, 2008

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 20, 2008

By: /s/ Barbara E. Campbell
Barbara E. Campbell
Treasurer

Date: February 20, 2008
