SECURITIES AND EXCHANGE COMMISSION

FORM POS AMI

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FILER

Large-Cap Core Portfolio

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SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

FORM N-1A

REGISTRATION STATEMENT
UNDER
THE INVESTMENT COMPANY ACT OF 1940 []

AMENDMENT NO. 3 [X]

LARGE-CAP CORE PORTFOLIO
----(Exact Name of Registrant as Specified in Charter)

The Eaton Vance Building
255 State Street, Boston, Massachusetts 02109
-----(Address of Principal Executive Offices)

(617) 482-8260 ----

(Registrant's Telephone Number, including Area Code)

Alan R. Dynner
The Eaton Vance Building, 255 State Street, Boston, Massachusetts 02109
-----(Name and Address of Agent for Service)

Throughout this Amendment to the Registration Statement, information concerning Large-Cap Core Portfolio (the "Portfolio") is incorporated by reference from Amendment No. 74 to the Registration Statement of Eaton Vance Special Investment Trust (File No. 2-27962 under the Securities Act of 1933 (the

"1933 Act")) (the "Amendment"), which was filed electronically with the Securities and Exchange Commission on April 27, 2005 (Accession No. 0000940394-05-_____). The Amendment contains the prospectus (the "Feeder Fund prospectus") and statement of additional information (the "Feeder Fund SAI") of Eaton Vance Large-Cap Core Fund (the "Feeder Fund"), which invests a significant portion of its assets in the Portfolio. Certain investment practices and policies of the Feeder Fund are substantially the same as those of the Portfolio.

PART A

Responses to Items 1, 2, 3 and 8 have been omitted pursuant to Paragraph B 2.(b) of the General Instructions to Form N-1A.

Item 4. Investment Objectives, Principal Investment Strategies, Related Risks, and Disclosure of Portfolio Holdings

The Portfolio is a diversified, open-end management investment company. Interests in the Portfolio are issued solely in private placement transactions that do not involve any "public offering" within the meaning of Section 4(2) of the 1933 Act. Investments in the Portfolio may be made only by U.S. and foreign investment companies, common or commingled trust funds, pooled income funds or similar organizations or entities that are "accredited investors" within the meaning of Regulation D under the 1933 Act. This Registration Statement, as amended, does not constitute an offer to sell, or the solicitation of an offer to buy, any "security" within the meaning of the 1933 Act.

The Portfolio is not intended to be a complete investment program, and a prospective investor should take into account its objectives and other investments when considering the purchase of an interest in the Portfolio. The Portfolio cannot assure achievement of its investment objective.

Registrant incorporates by reference information concerning the Portfolio's investment objective and investment practices from "Fund Summaries - Eaton Vance Large-Cap Core Fund" and "Investment Objective & Principal Policies and Risks" in the Feeder Fund prospectus. Registrant incorporates by reference the description of the Portfolio's policies and procedures with respect to the disclosure of portfolio holdings information from "Information about the Fund" under "Shareholder Account Features" in the Feeder Fund prospectus.

Item 5. Management, Organization, and Capital Structure

(a) Management

Registrant incorporates by reference information concerning the Portfolio's management from "Management and Organization" in the Feeder Fund prospectus.

(b) Capital Stock

Registrant incorporates by reference information concerning interests in the Portfolio from "Management and Organization" in the Feeder Fund SAI.

Item 6. Shareholder Information

(a) Pricing

The net asset value of the Portfolio is determined once each day only when the New York Stock Exchange (the "Exchange") is open for trading ("Portfolio Business Day"). This determination is made each Portfolio Business Day as of the close of regular trading on the Exchange (currently 4:00 p.m., eastern time) (the "Portfolio Valuation Time"). Registrant incorporates by reference information concerning the computation of net asset value and valuation of Portfolio assets from "Valuing Shares" in the Feeder Fund prospectus.

(b) and (c) Purchases and Redemptions

As described above, interests in the Portfolio are issued solely in private placement transactions that do not involve any "public offering" within the meaning of Section 4(2) of the 1933 Act. There is no minimum initial or subsequent investment in the Portfolio. The Portfolio reserves the right to cease accepting investments at any time or to reject any investment order. The placement agent for the Portfolio is Eaton Vance Distributors, Inc. ("EVD"), a wholly-owned subsidiary of Eaton Vance Management. The principal business address of EVD is The Eaton Vance Building, 255 State Street, Boston, Massachusetts 02109. EVD receives no compensation for serving as the placement agent for the Portfolio.

Each investor in the Portfolio may add to or reduce its investment in the Portfolio on each Portfolio Business Day as of the Portfolio Valuation Time. The value of each investor's interest in the Portfolio will be determined by multiplying the net asset value of the Portfolio by the percentage, determined on the prior Portfolio Business Day, which represents that investor's share of the aggregate interests in the portfolio on such prior day. Any additions or withdrawals for the current Portfolio Business Day will then be recorded. Each investor's percentage of the aggregate interest in the Portfolio will then be recomputed as a percentage equal to a fraction (i) the numerator of which is the such investor's investment in the Portfolio as of the Portfolio Valuation Time on the prior Portfolio Business Day plus or minus, as the case may be, the amount of any additions to or withdrawals from the investment in the Portfolio on the current Portfolio Business Day and (ii) the denominator of which is the aggregate net asset value of the Portfolio as of the Portfolio Valuation Time on the prior Portfolio Business Day plus or minus, as the case may be, the amount of the net additions to or withdrawals aggregate investment in the Portfolio on the current Portfolio Business Day by investors in the Portfolio. The percentage so determined will then be applied to determine the value of the investor's interest in the Portfolio for the current Portfolio Business Day.

An investor in the Portfolio may withdraw all of (redeem) or any portion of

(decrease) its interest in the Portfolio if a withdrawal request in proper form is furnished by the investor to the Portfolio. All withdrawals will be effected as of the next Portfolio Valuation Time. The proceeds of a withdrawal will be paid by the Portfolio normally on the Portfolio Business Day the withdrawal is effected, but in any event within seven days. The Portfolio reserves the right to pay the proceeds of a withdrawal (whether a redemption or decrease) by a distribution in kind of portfolio securities (instead of cash). The securities so distributed would be valued at the same amount as that assigned to them in calculating the net asset value for the interest (whether complete or partial) being withdrawn. If an investor received a distribution in kind upon such withdrawal, the investor could incur brokerage and other charges in converting the securities to cash.

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The right of any investor to receive payment with respect to any withdrawal may be suspended or the payment of the withdrawal proceeds postponed during any period in which the Exchange is closed (other than weekends or holidays) or trading on the Exchange is restricted as determined by the Securities and Exchange Commission (the "SEC") or, to the extent otherwise permitted by the Investment Company Act of 1940, as amended (the "1940 Act"), if an emergency exists as determined by the SEC, or during any other period permitted by order of the SEC for the protection of investors.

(d) Dividends and Distributions

The Portfolio will allocate at least annually among its investors each investor's distributive share of the Portfolio's net investment income, net realized capital gains, and any other items of income, gain, loss, deduction or credit.

(e) Frequent Purchases and Redemptions of Fund Shares

In general, frequent purchases and redemptions of investment company shares dilute the value of shares held by long-term shareholders. Excessive purchases and redemptions may disrupt efficient portfolio management, forcing an investment company to sell portfolio securities at inopportune times to raise cash, or cause increased expenses such as increased brokerage costs, realization taxable capital gains without attaining any investment advantage, increased administrative costs. The Boards of Trustees of the Eaton Vance Funds have adopted policies for the Feeder Fund to discourage short-term trading and market timing and to seek to minimize the potentially detrimental effects of of Feeder Fund shares. purchases and redemptions incorporates by reference additional information from "Restrictions on Excessive Trading and Market Timing" under "Purchasing Shares" in the prospectus.

(f) Tax Consequences

Under the anticipated method of operation of the Portfolio, the Portfolio will not be subject to any federal income tax. However, each investor in the

Portfolio will take into account its allocable share of the Portfolio's taxable ordinary income and capital gain in determining its federal income tax liability, if any. The determination of each such share will be made in accordance with the governing instruments of the Portfolio, which are intended to comply with the requirements of the Internal Revenue Code of 1986, as amended (the "Code") and the regulations promulgated thereunder.

The Portfolio expects to manage its assets in such a way that an investment company investing in the Portfolio will be able to satisfy the requirements of Subchapter M of the Code, assuming that it invests all of its assets in the Portfolio or other registered investment companies that so manage their assets.

Item 7. Distribution Arrangements

Not applicable.

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PART B

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Item 10. Portfolio History

The Portfolio is organized as a trust under the laws of the state of New York under a Declaration of Trust dated June 18, 2002. Effective September 3, 2002, the Portfolio changed its name from "U.S. Core Growth Portfolio" to "Large-Cap Core Portfolio".

Item 11. Description of the Portfolio and Its Investments and Risks

Part A contains information about the investment objective and policies of the Portfolio. This Part B should be read in conjunction with Part A.

Capitalized terms used in this Part B and not otherwise defined have the meanings given them in Part A.

Registrant incorporates by reference additional information concerning the investment policies of the Portfolio as well as information concerning the investment restrictions of the Portfolio from "Strategies and Risks" and "Investment Restrictions" in the Feeder Fund SAI. Registrant incorporates by reference the Portfolio's portfolio turnover notes from "Financial Highlights" in the Feeder Fund prospectus. Registrant incorporates by reference the Portfolio's policies regarding the disclosure of portfolio holdings information from "Disclosure of Portfolio Holdings and Related Information" under "Performance" in the Feeder Fund SAI.

Item 12. Management of the Portfolio

(a) - (c) Board of Trustees, Management Information and Compensation

Registrant incorporates by reference additional information concerning the management of the Portfolio from "Management and Organization" in the Feeder Fund SAI.

(d) Sales Loads

Not applicable.

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(e) Code of Ethics

Registrant incorporates by reference information concerning relevant codes of ethics from "Investment Advisory and Administrative Services" in the Feeder Fund SAI.

(f) Proxy Voting Policies

Registrant incorporates any reference information concerning relevant proxy voting policies from "Management and Organization" and from Appendix D and Appendix E in the Feeder Fund SAI.

Item 13. Control Persons and Principal Holders of Securities

(a) - (b) Control Persons and Principal Holders

As of April 1, 2005, the Feeder Fund controlled the Portfolio by virtue of owning approximately 99.6% of the value of the outstanding interests in the Portfolio. Because the Feeder Fund controls the Portfolio, the Feeder Fund may take actions without the approval of any other investor. The Feeder Fund has informed the Portfolio that it will vote in accordance with the requirements of the 1940 Act whenever requested to vote on Portfolio matters. The Feeder Fund is a series of Eaton Vance Special Investment Trust, an open-end management investment company organized as a business trust under the laws of the

Commonwealth of Massachusetts. The address of the Feeder Fund is The Eaton Vance Building, 255 State Street, Boston, MA 02109.

(c) Management Ownership

As described in Part A, interests in the Portfolio may only be held by certain investment companies and other entities. Interests in the Portfolio cannot be purchased by a Trustee or officer of the Portfolio. The Trustees and officers of the Portfolio as a group odo not own any interest in the Portfolio.

Item 14. Investment Advisory and Other Services

Registrant incorporates by reference information concerning investment advisory and other services provided to the Portfolio from "Investment Advisory and Administrative Services" and "Other Service Providers" in the Feeder Fund SAI.

Item 15. Portfolio Managers

As described in Part A, interests in the Portfolio may only be held by certain investment companies and other entities. Interests in the Portfolio cannot be purchased by a portfolio manager.

Registrant incorporates by reference information concerning the portfolio manager of the Portfolio from "Investment Advisory and Administrative Services" in the Feeder Fund SAI.

Item 16. Brokerage Allocation and Other Practices

Registrant incorporates by reference information concerning the brokerage practices of the Portfolio from "Portfolio Securities Transactions" in the Feeder Fund SAI.

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Item 17. Capital Stock and Other Securities

Under the Portfolio's Declaration of Trust, the Trustees are authorized to issue interests in the Portfolio. Investors are entitled to participate pro rata in distributions of taxable income, loss, gain and credit of the Portfolio. Upon dissolution of the Portfolio, the Trustees shall liquidate the assets of the Portfolio and apply and distribute the proceeds thereof as follows: (a) first, to the payment of all debts and obligations of the Portfolio to third parties including, without limitation, the retirement of outstanding debt, including any debt owed to holders of record of interests in the Portfolio ("Holders") or their affiliates, and the expenses of liquidation, and to the setting up of any reserves for contingencies which may be necessary; and (b) second, in accordance with the Holders' positive Book Capital Account balances after adjusting Book Capital Accounts for certain allocations provided in the Declaration of Trust and in accordance with the requirements described in Treasury Regulations Section 1.704-1(b)(2)(ii)(b)(2). Notwithstanding the foregoing, if the Trustees

shall determine that an immediate sale of part or all of the assets of the Portfolio would cause undue loss to the Holders, the Trustees, in order to avoid such loss, may, after having given notification to all the Holders, to the extent not then prohibited by the law of any jurisdiction in which the Portfolio is then formed or qualified and applicable in the circumstances, either defer liquidation of and withhold from distribution for a reasonable time any assets of the Portfolio except those necessary to satisfy the Portfolio's debts and obligations or distribute the Portfolio's assets to the Holders in liquidation. Certificates representing an investor's interest in the Portfolio are issued only upon the written request of a Holder.

Each Holder is entitled to vote in proportion to the amount of its interest in the Portfolio. Holders do not have cumulative voting rights. The Portfolio is not required and has no current intention to hold annual meetings of Holders, but the Portfolio will hold meetings of Holders when in the judgment of the Portfolio's Trustees it is necessary or desirable to submit matters to a vote of Holders at a meeting. Any action which may be taken by Holders may be taken without a meeting if Holders holding more than 50% of all interests entitled to vote (or such larger proportion thereof as shall be required by any express provision of the Declaration of Trust of the Portfolio) consent to the action in writing and the consents are filed with the records of meetings of Holders.

The Portfolio's Declaration of Trust may be amended by vote of Holders of more than 50% of all interests in the Portfolio at any meeting of Holders or by instrument in writing without a meeting, executed by a majority of the Trustees and consented to by the Holders of more than 50% of all interests. Trustees may also amend the Declaration of Trust (without the vote or consent of Holders) to change the Portfolio's name or the state or other jurisdiction whose law shall be the governing law, to supply any omission or cure, supplement any ambiguous, defective or inconsistent provision, to conform the Declaration of Trust to applicable federal law or regulations or to the requirements of the Code, or to change, modify or rescind any provision, provided that such change, modification or rescission is determined by the Trustees to be necessary or appropriate and not to have a materially adverse effect on the financial interests of the Holders. No amendment of Declaration of Trust which would change any rights with respect to any Holder's thereon upon interest in the Portfolio by reducing the amount payable liquidation of the Portfolio may be made, except with the vote or consent of the Holders of two-thirds of all interests. References in the Declaration of Trust and in Part A or this Part B to a specified percentage of, or fraction of, interests in the Portfolio, means Holders whose combined Book Capital Account balances represent such specified percentage or fraction of the combined Book Capital Account balance of all, or a specified group of, Holders.

The Portfolio may merge or consolidate with any other corporation, association, trust or other organization or may sell or exchange all or substantially all of its assets upon such terms and conditions and for such consideration when and as authorized by the Holders of (a) 67% or more of the

interests in the Portfolio present or represented at the meeting of Holders, if Holders of more than 50% of all interests are present or represented by proxy, or (b) more than 50% of all interests, whichever is less. The Portfolio may be terminated (i) by the affirmative vote of Holders of not less than two-thirds of all interests at any meeting of Holders or by an instrument in writing without a meeting, executed by a majority of the Trustees and consented to by Holders of not less than two-thirds of all interests, or (ii) by the Trustees by written notice to the Holders.

The Declaration of Trust provides that obligations of the Portfolio are not binding upon the Trustees individually but only upon the property of the Portfolio and that the Trustees will not be liable for any action or failure to act, but nothing in the Declaration of Trust protects a Trustee against any liability to which he would otherwise be subject by reason of willful misfeasance, bad faith, gross negligence, or reckless disregard of the duties involved in the conduct of his office.

Item 18. Purchase, Redemption, and Pricing of Shares

See Item 6 herein. Registrant incorporates by reference information concerning valuation of the Portfolio's assets from "Calculation of Net Asset Value" in the Feeder Fund SAI.

Item 19. Taxation of the Portfolio

Provided the Portfolio is operated at all times during its existence in accordance with certain organizational and operational documents, the Portfolio should be classified as a partnership under the Code, and it should not be a "publicly traded partnership" within the meaning of Section 7704 of the Code. Consequently, the Portfolio does not expect that it will be required to pay any federal income tax, and a Holder will be required to take into account in determining its federal income tax liability its share of the Portfolio's income, gains, losses, deductions and credits.

Under Subchapter K of the Code, a partnership is considered to be either an aggregate of its members or a separate entity depending upon the factual and legal context in which the question arises. Under the aggregate approach, each partner is treated as an owner of an undivided interest in partnership assets and operations. Under the entity approach, the partnership is treated as a separate entity in which partners have no direct interest in partnership assets and operations. In the case of a Holder that seeks to qualify as a registered investment company ("RIC"), the aggregate approach should apply, and each such Holder should accordingly be deemed to own a proportionate share of each of the assets of the Portfolio and to be entitled to the gross income of the Portfolio attributable to that share for purposes of all requirements of Subchapter M of the Code.

In order to enable a Holder (that is otherwise eligible) to qualify as a RIC, the Portfolio intends to satisfy the requirements of Subchapter M of the Code relating to sources of income and diversification of assets as if they were applicable to the Portfolio and to permit withdrawals in a manner that will

enable a Holder which is a RIC to comply with the distribution requirements applicable to RICs (including those under Sections 852 and 4982 of the Code). The Portfolio will allocate at least annually to each Holder such Holder's distributive share of the Portfolio's net investment income, net realized capital gains, and any other items of income, gain, loss, deduction or credit in a manner intended to comply with the Code and applicable Treasury regulations.

To the extent the cash proceeds of any withdrawal (or, under certain circumstances, such proceeds plus the value of any marketable securities distributed to an investor) ("liquid proceeds") exceed a Holder's adjusted basis of his interest in the Portfolio, the Holder will generally realize a gain for federal income tax purposes. If, upon a complete withdrawal (redemption of the entire interest), a Holder receives only liquid proceeds (and/or unrealized

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receivables) and the Holder's adjusted basis of his interest exceeds the liquid proceeds of such withdrawal and to the Holder's basis in any unrealized receivables, the Holder will generally realize a loss for federal income tax purposes. In addition, on a distribution to a Holder from the Portfolio (whether pursuant to a partial or complete withdrawal or otherwise), (1) income or gain may be recognized if the distribution changes a distributee's share of any unrealized receivables held by the Portfolio and (2) gain or loss may be recognized on a distribution to a Holder that contributed property to the Portfolio. The tax consequences of a withdrawal of property (instead of or in addition to liquid proceeds) will be different and will depend on the specific factual circumstances. A Holder's adjusted basis of an interest in the Portfolio will generally be the aggregate prices paid therefor (including the adjusted basis of contributed property and any gain recognized on the contribution

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thereof), increased by the amounts of the Holder's distributive share of items of income and realized net gain of the Portfolio, and reduced, but not below zero, by (i) the amounts of the Holder's distributive share of items of Portfolio loss, and (ii) the amount of any cash distributions (including cash distributions on withdrawals from the Portfolio) and the basis to the Holder of any property received by such Holder other than in liquidation, and (iii) the Holder's distributive share of the Portfolio's nondeductible expenditures not properly chargeable to capital account. Increases or decreases in a Holder's share of the Portfolio's liabilities may also result in corresponding increases or decreases in such adjusted basis.

A partnership has the option to make an election to adjust the basis of the partnership's assets in the event of a distribution of partnership property to a partner, or a transfer of a partnership interest. This optional adjustment could either increase or decrease the value of a partnership interest to the transferee depending on the relevant facts. There can be no assurance that the Portfolio will make such an election in the future. Furthermore, this election is mandatory in certain circumstances.

The Portfolio's transactions in options, futures contracts, hedging

transactions, forward contracts and certain other transactions will be subject to special tax rules (including mark-to-market, constructive sale, straddle, wash sale, short sale and other rules), the effect of which may be to accelerate income to the Portfolio, defer Portfolio losses, cause adjustments in the holding periods of Portfolio securities, convert capital gain into ordinary income and convert short-term capital losses into long-term capital losses. These rules could therefore affect the amount, timing and character of distributions to investors, including RIC shareholders.

The Portfolio may be subject to foreign taxes on its income (including, in some cases, capital gains) from foreign securities. Tax conventions between certain countries and the U.S. may reduce or eliminate such taxes. The anticipated extent of the Portfolio's investment in foreign securities is such that it is not expected that a Holder that is a RIC will be eligible to pass through to its shareholders foreign taxes paid by the Portfolio and allocated to the Holder, so that shareholders of such RIC will not be entitled to foreign tax credits or deductions for foreign taxes paid by the Portfolio and allocated to the RIC.

Transactions in foreign currencies, foreign currency-denominated debt securities and certain foreign currency options, futures contracts, and forward contracts (and similar instruments) may give rise to ordinary income or loss to the extent such income or loss results from fluctuations in the value of the foreign currency concerned. Investments in "passive foreign investment companies" could subject the Portfolio to U.S. federal income tax and other charges on the proceeds from the sales of the investment in such company; however these charges can be avoided by making certain elections.

The Portfolio will allocate at least annually to its investors their respective distributive shares of any net investment income and net capital gains which have been recognized for federal income tax purposes (including unrealized gains at the end of the Portfolio's fiscal year on certain options

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and futures transactions that are required to be marked-to-market). The Portfolio has significant holdings of highly appreciated securities that were contributed to the Portfolio by investors. If such securities were to be sold, the resulting capital gain would be allocated disproportionately among the Portfolio's investors.

For taxable years beginning on or before December 31, 2008, "qualified dividend income" received by an individual will be taxed at the rates applicable to long-term capital gain. In order for some portion of the dividends to be qualified dividend income, the Portfolio must meet holding period and other requirements with respect to some portion of the dividend-paying stocks in its portfolio. A dividend will not be treated as qualified dividend income (at either the Fund or shareholder level) (1) if the dividend is received with respect to any share of stock held for fewer than 61 days during the 120-day period beginning at the date which is 60 days before the date on which such share becomes ex-dividend with respect to such dividend (or, in the case of

certain preferred stock, 91 days during the 180-day period beginning 90 days before such date), (2) to the extent that the recipient is under an obligation (whether pursuant to a short sale or otherwise) to make related payments with respect to positions in substantially similar or related property, (3) if the recipient elects to have the dividend income treated as investment interest, (4) if the dividend is received from a foreign corporation that is (a) not eligible for the benefits of a comprehensive income tax treaty with the United States (with the exception of dividends paid on stock of such a foreign corporation readily tradable on an established security market in the United (b) treated as a foreign personal holding company, foreign investment company, or passive foreign investment company. In any event, if the aggregate qualified dividends received by the Portfolio during any taxable year are 95% or more of its gross income, then 100% of the Portfolio's dividends (other than property designated capital gain dividends) will be eligible to be treated as qualified dividend income. For this purpose, the only gain included in the term "gross income" is the excess of net short-term capital gain over net long-term capital loss.

An entity that is treated as a partnership under the Code, such as the Portfolio, is generally treated as a partnership under state and local tax laws, but certain states may have different entity classification criteria and may therefore reach a different conclusion. Entities that are classified as partnerships are not treated as taxable entities under most state and local tax laws, and the income of a partnership is considered to be income of partners both in timing and in character. The laws of the various states and local taxing authorities vary with respect to the status of a partnership interest under state and local tax laws, and each Holder of an interest in the Portfolio is advised to consult his own tax adviser.

The foregoing discussion does not address the special tax rules applicable to certain classes of investors, such as tax-exempt entities, foreign investors, insurance companies and financial institutions. Investors should consult their own tax advisers with respect to special tax rules that may apply in their particular situations, as well as the state, local or foreign tax consequences of investing in the Portfolio. It is not possible at this time to predict whether or to what extent any changes in the Code or interpretations thereof will occur.

Item 20. Underwriters

The placement agent for the Portfolio is EVD. Investment companies, common and commingled trust funds, pooled income funds and similar entities may continuously invest in the Portfolio.

Item 21. Calculation of Performance Data

Not applicable.

The following audited financial statements of the Portfolio are incorporated by reference into this Part B and have been so incorporated in reliance upon the report of Deloitte & Touche LLP, an independent registered public accounting firm, as experts in accounting and auditing.

Portfolio of Investments as of December 31, 2004
Statement of Assets and Liabilities as of December 31, 2004
Statement of Operations for the fiscal year ended December 31, 2004
Statements of Changes in Net Assets for the fiscal year ended
December 31, 2004 and for the period from the start of business,
September 9, 2003, to December 31, 2003
Supplementary Data for the fiscal year ended December 31, 2004
and for the period from the start of business, September 9, 2003,
to December 31, 2003
Notes to Financial Statements
Independent Auditors' Report

For purposes of the EDGAR filing of this amendment to the Portfolio's registration statement, the Portfolio incorporates by reference the above audited financial statements as previously filed electronically with the SEC in an N-CSR filing made March 8, 2005 pursuant to Section 30(b)(2) of the Investment Company Act of 1940 (Accession Number 0001047469-05-005689).

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PART C

Item 23. Exhibits (with inapplicable items omitted)

- (a) Declaration of Trust dated June 18, 2002 filed as Exhibit (a) to the Original Registration Statement filed June 20, 2002 (Accession No. 0000940394-02-000401) and incorporated herein by reference.
- (b) (1) By-Laws of the Registrant adopted June 18, 2002 filed as Exhibit (b) to the Original Registration Statement and incorporated herein by reference.
 - (2) Amendment to By-Laws dated February 7, 2005 filed herewith.
- (c) Reference is made to Item 23(a) and 23(b) above.

- (d) Investment Advisory Agreement between the Registrant and Boston Management and Research dated June 18, 2002 filed as Exhibit (d) to the Original Registration Statement and incorporated herein by reference.
- (e) Placement Agent Agreement with Eaton Vance Distributors, Inc. dated June 18, 2002 filed as Exhibit (e) to the Original Registration Statement and incorporated herein by reference.
- The Securities and Exchange Commission has granted the Registrant an exemptive order that permits the Registrant to enter into deferred compensation arrangements with its independent Trustees. See In the Matter of Capital Exchange Fund, Inc., Release No. IC-20671 (November 1, 1994).
- (g) (1) Master Custodian Agreement with Investors Bank & Trust Company dated June 18, 2002 filed as Exhibit (g) (1) to the Original Registration Statement and incorporated herein by reference.
 - (2) Extension Agreement dated August 31, 2000 to Master Custodian Agreement with Investors Bank & Trust Company filed as Exhibit (g) (4) to Post-Effective Amendment No. 85 of Eaton Vance Municipals Trust (File Nos. 33-572, 811-4409) filed with the Commission on January 23, 2001 (Accession No. 0000940394-01-500027) and incorporated herein by reference.
 - (3) Delegation Agreement dated December 11, 2000, with Investors Bank & Trust Company filed as Exhibit (j)(e) to the Eaton Vance Prime Rate Reserves N-2, Amendment No. 5 (File Nos. 333-32267, 811-05808) filed April 3, 2001 (Accession No. 0000940394-01-500126) and incorporated herein by reference.
- (1) Investment representation letter of Boston Management & Research dated June 18, 2002 filed as Exhibit (1) to the Original Registration Statement and incorporated herein by reference.
- (p) Code of Ethics adopted by Eaton Vance Corp., Eaton Vance Management, Boston Management and Research, Eaton Vance Distributors, Inc. and the Eaton Vance Funds effective September 1, 2000, as revised February 1, 2005, filed as Exhibit (r)(1) to the Registration Statement on Form N-2 of Eaton Vance Global Enhanced Equity Income Fund (File Nos. 33-122540 and 811-21711) filed with the SEC on February 4, 2005

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(Accession No. 0000898432-05-000098) and incorporated herein by reference.

Item 24. Persons Controlled by or Under Common Control with Registrant

Not applicable.

Item 25. Indemnification

Article V of the Registrant's Declaration of Trust contains indemnification provisions for Trustees and officers. The Trustees and officers of the Registrant and the personnel of the Registrant's investment adviser are insured under an errors and omissions liability insurance policy.

The Placement Agent Agreement also provides for reciprocal indemnity of the Placement Agent, on the one hand, and the Trustees and officers, on the other.

Item 26. Business and Other Connections of the Investment Adviser

Reference is made to: (i) the information set forth under the caption "Management and Organization" in the Feeder Fund SAI; (ii) the Eaton Vance Corp. 10-K filed under the Securities Exchange Act of 1934 (File No. 1-8100); and (iii) the Forms ADV of Eaton Vance Management (File No. 801-15930) and Boston Management and Research (File No. 801-43127) filed with the Commission, all of which are incorporated herein by reference.

Item 27. Principal Underwriters

Not applicable.

Item 28. Location of Accounts and Records

All applicable accounts, books and documents required to be maintained by the Registrant by Section 31(a) of the 1940 Act and the Rules promulgated thereunder are in the possession and custody of the Registrant's custodian, Investors Bank & Trust Company, 200 Clarendon Street, Boston, MA 02116, with the exception of, certain corporate documents and portfolio trading documents which are in the possession and custody of the Registrant's investment adviser at The Eaton Vance Building, 255 State Street, Boston, MA 02109. The Registrant is informed that all applicable accounts, books and documents required to be maintained by registered investment advisers are in the custody and possession of the Registrant's investment adviser.

Item 29. Management Services

Not applicable.

Item 30. Undertakings

None.

C-2

SIGNATURES

Pursuant to the requirements of the Investment Company Act of 1940, the

Registrant has duly caused this Amendment No. 3 to the Registration Statement on Form N-1A to be signed on its behalf by the undersigned, thereunto duly authorized in the City of Boston and Commonwealth of Massachusetts on the 28th day of April, 2005.

LARGE-CAP CORE PORTFOLIO

By: /s/ Duncan W. Richardson
----Duncan W. Richardson
President

INDEX TO EXHIBITS

| Exhibit No. | Description of Exhibit |
|-------------|---|
| | |
| (b) (2) | Amendment dated February 7, 2005 to the By-Laws adopted February 28, 2000 |

Amendment to the By-Laws of Large-Cap Core Portfolio

February 7, 2005

Pursuant to Section 4.2 of Article IV of the By-Laws of Large-Cap Core Portfolio (the "Trust"), upon vote by a majority of the Trustees of the Trust, Section 2.5 of Article II is hereby amended and restated in its entirety as follows:

Section 2.5. Chairman, President and Vice Presidents.

- a. Chairman. The Trustees may appoint from among their number a Chairman. The Chairman shall preside at meetings of the Trustees and may call meetings of the Trustees and of any committee thereof whenever he deems it necessary or desirable to do so. The Chairman may in his discretion preside at any meeting of the Holders, and may delegate such authority to another Trustee or officer of the Trust. The Chairman shall exercise and perform such additional powers and duties as from time to time may be assigned to him by the Trustees, and shall have the resources and authority appropriate to discharge the responsibilities of the office.
- b. President and Vice Presidents. Subject to such supervisory powers, if any, as may be given by the Trustees to the Chairman, the President shall be the chief executive officer of the Trust and, subject to the control of the Trustees, shall have general supervision, direction and control of the business of the Trust and of its employees and shall exercise such general powers of management as are usually vested in the office of President of a corporation. In the event that the Chairman does not preside at a meeting of the Holders or delegate such power and authority to another Trustee or officer of the Fund, the President or his designee shall preside at such meeting. Subject to the direction of the Trustees, the President shall have the power, in the name and on behalf of the Trust, to execute any and all loan documents, contracts, agreements, deeds, mortgages and other instruments in writing, and to employ and discharge employees and agents of the Trust. Unless otherwise directed by the Trustees, the President shall have full authority and power to attend, to act and to vote, on behalf of the Trust, at any meeting of any business organization in which the Trust holds an interest, or to confer such powers upon any other person, executing any proxies duly authorizing such person. The President shall have such further authorities and duties as the Trustees shall from time to time determine. In the absence or disability of the President, the Vice Presidents in order of their rank or the Vice President designated by the Trustees, perform all of the duties of the President, and when so acting shall have all the powers of and be subject to all of the restrictions upon the President. Subject to the direction of the President, each Vice President shall have the power in the name and on behalf of the Trust to execute any and all loan documents, contracts, agreements, deeds, mortgages and other instruments in

| writing, | and, | in add | ditic | on, | sha | 11 | have | such | othe | er | duti | es | and | powers | as | shall | be |
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