

Fiduciary/Claymore MLP Opportunity Fund
Form N-Q
April 19, 2007

UNITED STATES
SECURITIES AND EXCHANGE COMMISSION

Washington, DC 20549

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED
MANAGEMENT INVESTMENT COMPANY

Investment Company Act file number 811-21652

Fiduciary/Claymore MLP Opportunity Fund

(Exact name of registrant as specified in charter)

**2455 Corporate West Drive, Lisle, IL
60532**

(Address of principal executive offices)

(Zip code)

Nicholas Dalmaso

2455 Corporate West Drive, Lisle, IL 60532

(Name and address of agent for service)

Registrant's telephone number, including area code: (630) 505-3700

Date of fiscal year end: November 30

Date of reporting period: February 28, 2007

Form N-Q is to be used by management investment companies, other than small business investment companies registered on Form N-5 (§§ 239.24 and 274.5 of this chapter), to file reports with the Commission, not later than 60 days after the close of the first and third fiscal quarters, pursuant to rule 30b1-5 under the Investment Company Act of 1940 (17 CFR 270.30b1-5). The Commission may use the information provided on Form N-Q in its regulatory, disclosure review, inspection, and policymaking roles.

A registrant is required to disclose the information specified by Form N-Q, and the Commission will make this information public. A registrant is not required to respond to the collection of information contained in Form N-Q unless the Form displays a currently valid Office of Management and Budget (OMB) control number. Please direct comments concerning the accuracy of the information collection burden estimate and any suggestions for reducing the burden to the Secretary, Securities and Exchange Commission, 450 Fifth Street, NW, Washington, DC 20549-0609. The OMB has reviewed this collection of information under the clearance requirements of 44 U.S.C. § 3507.

Item 1. Schedule of Investments.

Attached hereto.

Fiduciary/Claymore MLP Opportunity Fund**Portfolio of Investments**

February 28, 2007 (unaudited)

| Number of Shares | | Value |
|--|--|---------------|
| Master Limited Partnerships and MLP Affiliates - 150.6% | | |
| Coal - 13.4% | | |
| 881,300 | Alliance Holdings G.P., L.P. | \$ 20,172,957 |
| 357,800 | Alliance Resource Partners, L.P. | 12,415,660 |
| 1,145,621 | Clearwater Natural Resources, L.P. (Acquired 08/01/05 and 10/02/06, Cost \$22,912,423) (a)(b) | 20,048,367 |
| 85,300 | Natural Resource Partners, L.P. | 5,377,312 |
| | | 58,014,296 |
| Midstream Energy Infrastructure - 126.3% | | |
| 129,300 | Atlas Pipeline Partners, L.P. | 6,212,865 |
| 846,402 | Copano Energy, L.L.C. | 55,930,244 |
| 407,167 | Crosstex Energy, L.P. | 15,301,336 |
| 249,470 | Crosstex Energy, L.P., Senior Subordinated Series C Units (Acquired 06/29/06, Cost \$7,000,128) (a) (b) (c) | 8,521,694 |
| 548,775 | DCP Midstream Partners, L.P. | 20,293,700 |
| 50,000 | Duncan Energy Partners L.P. (c) | 1,200,000 |
| 15,717 | Enbridge Energy Management, L.L.C. (d) | 802,510 |
| 507,545 | Enbridge Energy Partners, L.P. | 26,803,451 |
| 1,620,580 | Energy Transfer Partners, L.P. | 89,391,193 |
| 1,203,480 | Enterprise Products Partners L.P. | 36,718,175 |
| 255,700 | Hiland Partners, L.P. | 13,869,168 |
| 659,450 | Holly Energy Partners, L.P. | 30,413,834 |
| 617,950 | Kinder Morgan Energy Partners, L.P. | 31,311,526 |
| 576,360 | Kinder Morgan Management, L.L.C. (d) | 28,823,764 |
| 129,308 | Linn Energy L.L.C. (Acquired 01/30/07, Cost \$3,362,008) (a) (b) | 3,865,064 |
| 145,172 | Linn Energy L.L.C. - Class C (Acquired 01/30/07, Cost \$3,638,010) (a)(b) | 4,062,268 |
| 1,661,086 | Magellan Midstream Partners, L.P. | 69,931,721 |
| 113,097 | Markwest Energy Partners, L.P. | 7,339,995 |
| 1,012,279 | Plains All American Pipeline, L.P. | 56,181,485 |
| 164,372 | Plains All American Pipeline, L.P. (Acquired 12/19/06, Cost \$7,868,502) (a) (b) | 9,099,235 |
| 206,918 | Targa Resources Partners L.P. (c) | 4,986,724 |
| 266,600 | Valero GP Holdings L.L.C. | 7,022,244 |
| 426,400 | Williams Partners, L.P. | 18,420,480 |
| | | 546,502,676 |
| Propane - 7.8% | | |
| 524,100 | Inergy Holdings, L.P. | 21,776,355 |
| 385,400 | Inergy, L.P. | 11,958,962 |
| | | 33,735,317 |
| Shipping - 3.1% | | |
| 39,100 | K-Sea Transportation Partners, L.P. | 1,544,450 |
| 36,000 | Teekay LNG Partners, L.P. (Marshall Island) | 1,325,160 |
| 15,603 | Teekay Offshore Partners, L.P. (Marshall Island) | 464,969 |
| 518,051 | U.S. Shipping Partners, L.P. | 9,889,594 |

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13,224,173

| | | |
|---|--|-----------------------|
| Total Master Limited Partnerships and MLP Affiliates | | |
| | (Cost \$428,884,949) | 651,476,462 |
| Incentive Distribution Rights - 0.0% | | |
| 43 | Clearwater Natural Resources, L.P. (Acquired 08/01/05, Cost \$0) (a)(b)(c) | |
| Principal Value | | Value |
| Short Term Investments - 4.9% | | |
| U.S. Government and Agency Securities - 4.9% | | |
| 21,100,000 | Federal Home Loan Bank Discount Note, yielding 5.11%, 3/01/07 | 21,100,000 |
| | (Amortized cost \$21,100,000) | |
| Total Investments - 155.5% | | |
| | (Cost \$449,984,949) | 672,576,462 |
| | Borrowings Outstanding - (34.7% of Net Assets or 22.3% of Total Investments) | (150,000,000) |
| | Liabilities in Excess of Other Assets - (20.8%) | (89,957,899) |
| Net Assets - 100.0% | | \$ 432,618,563 |

L.L.C. Limited Liability Corporation

L.P. Limited Partnership

MLP Master Limited Partnership

- (a) Security is restricted and may be resold only in transactions exempt from registration, normally to qualified institutional buyers. At February 28, 2007, restricted securities aggregate market value amounted to \$45,596,628 or 10.5% of net assets.
- (b) Security is valued in accordance with Fair Valuation procedures established in good faith by the Board of Trustees. The total market value of such securities is \$45,596,628 which represents 10.5% of net assets.
- (c) Non-income producing security.
- (d) While non-income producing, security makes regular in-kind distributions.
See previously submitted notes to financial statements for the period ended November 30, 2006.

Restricted Securities

| Security | Date of Acquisition | Shares | Current Cost | Fair Market Value | Value per share at Acquisition date (unrestricted)** | 2/28/2007 Price |
|------------------------------------|---------------------|---------|--------------|-------------------|--|-----------------|
| Clearwater Natural Resources L.P.* | 8/01/05 | 43 | \$ 0 | \$ 0 | \$ 0.00 | \$ 0.00 |
| Clearwater Natural Resources L.P. | 8/01/05 | 892,857 | 17,857,143 | 15,624,997 | \$ 0.00 | \$ 17.50 |
| Clearwater Natural Resources L.P. | 10/2/2006 | 252,764 | 5,055,280 | 4,423,370 | \$ 0.00 | \$ 17.50 |

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| | | | | | | | |
|-----------------------------------|-----------|---------|-----------|-----------|----|-------|----------|
| Crosstex Energy L.P. | 6/29/2006 | 249,470 | 7,000,128 | 8,521,694 | \$ | 37.50 | \$ 34.16 |
| Linn Energy L.L.C. | 1/30/07 | 145,172 | 3,638,010 | 4,062,268 | \$ | 33.29 | \$ 27.98 |
| Linn Energy L.L.C. | 1/30/07 | 129,308 | 3,362,008 | 3,865,064 | \$ | 33.29 | \$ 29.89 |
| Plains All American Pipeline L.P. | 12/19/06 | 164,372 | 7,868,502 | 9,099,235 | \$ | 51.53 | \$ 55.36 |

* Incentive Distribution Rights.

** Valuation of unrestricted common stock on the acquisition date of the restricted securities.

Item 2. Controls and Procedures.

- (a) The registrant's principal executive officer and principal financial officer have evaluated the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended) as of a date within 90 days of the filing date of this report and have concluded, based on such evaluation, that the registrant's disclosure controls and procedures were effective, as of that date, in ensuring that information required to be disclosed by the registrant in this Form N-Q was recorded, processed, summarized and reported within the time periods specified in the Securities and Exchange Commission's rules and forms.

- (b) There was no change in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the Investment Company Act of 1940, as amended) that occurred during the registrant's last fiscal quarter that materially affected or is reasonably likely to materially affect the registrant's internal control over financial reporting.

Item 3. Exhibits.

A separate certification for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the Investment Company Act of 1940, as amended (17 CFR 270.30a-2(a)), is attached hereto.

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.

Fiduciary/Claymore MLP Opportunity Fund

By: /s/ Nicholas Dalmaso
Nicholas Dalmaso

Chief Legal and Executive Officer

Date: April 19, 2007

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/ Nicholas Dalmaso
Nicholas Dalmaso

Chief Legal and Executive Officer

Date: April 19, 2007

By: /s/ Steven M. Hill
Steven M. Hill

Treasurer and Chief Financial Officer

Date: April 19, 2007