

TORTOISE MLP FUND, INC.
Form N-Q
October 29, 2010

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

FORM N-Q

QUARTERLY SCHEDULE OF PORTFOLIO HOLDINGS OF REGISTERED MANAGEMENT INVESTMENT
COMPANY

Investment Company Act file number 811-22409

Tortoise MLP Fund, Inc.
(Exact name of registrant as specified in charter)

11550 Ash Street, Suite 300, Leawood, KS 66211
(Address of principal executive offices) (Zip code)

David J. Schulte
11550 Ash Street, Suite 300, Leawood, KS 66211
(Name and address of agent for service)

913-981-1020
Registrant's telephone number, including area code

Date of fiscal year end: November 30

Date of reporting period: August 31, 2010

Item 1. Schedule of Investments.

Tortoise MLP Fund, Inc.
SCHEDULE OF INVESTMENTS (Unaudited)

| | August 31, 2010 | |
|---|-----------------|--------------|
| | Shares | Fair Value |
| Master Limited Partnerships and Related Companies - 70.3% (1) | | |
| Crude/Refined Products Pipelines - 13.5% (1) | | |
| United States - 13.5% (1) | | |
| Buckeye Partners, L.P. | 102,260 | \$ 6,243,996 |
| Enbridge Energy Management, L.L.C.(2) | 127,124 | 6,746,471 |
| Enbridge Energy Partners, L.P. | 426,775 | 22,939,156 |
| Holly Energy Partners, L.P. | 303,880 | 15,194,000 |
| Kinder Morgan Management, LLC (2) | 335,902 | 19,841,731 |
| Magellan Midstream Partners, L.P. | 673,243 | 32,625,356 |
| NuStar Energy L.P. | 229,300 | 13,067,807 |
| Plains All American Pipeline, L.P. | 304,650 | 18,291,186 |
| Sunoco Logistics Partners L.P. | 123,600 | 9,152,580 |
| | | 144,102,283 |
| Natural Gas/Natural Gas Liquids Pipelines - 27.6% (1) | | |
| United States - 27.6% (1) | | |
| Boardwalk Pipeline Partners, LP | 331,775 | 10,139,044 |
| Duncan Energy Partners L.P. | 147,600 | 4,094,424 |
| El Paso Pipeline Partners, L.P. | 210,900 | 6,603,279 |
| Energy Transfer Partners, L.P. | 2,458,941 | 112,349,014 |
| Enterprise Products Partners L.P. | 889,500 | 32,884,815 |
| Niska Gas Storage Partners LLC | 515,666 | 9,735,774 |
| ONEOK Partners, L.P. | 544,000 | 37,427,200 |
| PAA Natural Gas Storage, L.P. | 70,975 | 1,694,173 |
| Spectra Energy Partners, LP | 115,786 | 3,730,625 |
| TC PipeLines, LP | 150,526 | 6,540,355 |
| Williams Partners L.P. | 1,622,959 | 68,342,803 |
| | | 293,541,506 |
| Natural Gas Gathering/Processing - 27.2% (1) | | |
| United States - 27.2% (1) | | |
| Chesapeake Midstream Partners, L.P. | 568,854 | 13,396,512 |
| Copano Energy, L.L.C. | 1,449,100 | 36,401,392 |
| DCP Midstream Partners, LP | 1,723,400 | 54,735,184 |
| MarkWest Energy Partners, L.P. | 1,234,755 | 41,142,037 |
| Regency Energy Partners LP | 3,111,500 | 73,991,470 |
| Targa Resources Partners LP | 2,189,100 | 55,362,339 |
| Western Gas Partners LP | 603,640 | 14,535,651 |
| | | 289,564,585 |
| Propane Distribution - 2.0% (1) | | |
| United States - 2.0% (1) | | |
| Inergy, L.P. | 567,410 | 21,130,348 |
| | | 21,130,348 |
| Total Master Limited Partnerships and Related Companies (Cost \$776,889,817) | | 748,338,722 |

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| | | |
|--|-------------|------------------|
| Short-Term Investments - 30.5% (1) | | |
| United States Investment Companies - 30.5% (1) | | |
| FFI Premier Institutional Fund - Class I, 0.28% (3) | 32,025,987 | 32,025,987 |
| Fidelity Institutional Government Portfolio - Class I, 0.06% (3) | 8,148,259 | 8,148,259 |
| Morgan Stanley Institutional Liquidity Fund - Class I, 0.22% (3) | 32,014,453 | 32,014,453 |
| UBS Select Prime Preferred Fund, 0.24% (3) | 220,052,373 | 220,052,373 |
| Wells Fargo Advantage Cash Investment Money Market Fund, 0.28% (3) | 32,020,781 | 32,020,781 |
| Total Short-Term Investments (Cost \$324,261,853) | | 324,261,853 |
| Total Investments - 100.8% (1) (Cost \$1,101,151,670) | | 1,072,600,575 |
| Other Assets and Liabilities - (0.8%) (1) | | (8,953,505) |
| Total Net Assets Applicable to Common Stockholders - 100.0% (1) | | \$ 1,063,647,070 |

- (1) Calculated as a percentage of net assets applicable to common stockholders.
- (2) Security distributions are paid-in-kind.
- (3) Rate indicated is the current yield as of August 31, 2010.

Various inputs are used in determining the value of the Company's investments. These inputs are 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, market corroborated inputs, etc.)

Level 3 -- significant unobservable inputs (including the Company'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.

The following table provides the fair value measurements of applicable Company assets by level within the fair value hierarchy as of August 31, 2010. These assets are measured on a recurring basis.

| Description | Fair Value at August 31, 2010 | Level 1 | Level 2 | Level 3 |
|--|-------------------------------------|------------------------|------------|------------|
| Equity Securities: | | | | |
| Master Limited Partnerships and Related Companies(a) | \$748,338,722 | \$748,338,722 | \$- | \$- |
| Total Equity Securities | 748,338,722 | 748,338,722 | - | - |
| Other: | | | | |
| Short-Term Investments(b) | 324,261,853 | 324,261,853 | - | - |
| Total Other | 324,261,853 | 324,261,853 | - | - |
| Total | \$1,072,600,575 | \$1,072,600,575 | \$- | \$- |

(a) All other industry classifications are identified in the Schedule of Investments.

(b) Short-term investments are sweep investments for cash balances in the Company at August 31, 2010.

Valuation Techniques

In general, and where applicable, the Company uses readily available market quotations based upon the last updated sales price from the principal market to determine fair value. This pricing methodology applies to the Company's Level 1 investments.

There were no transfers between levels for the period from July 30, 2010 through August 31, 2010.

As of August 31, 2010, the aggregate cost of securities for federal income tax purposes was \$1,101,115,444. The aggregate gross unrealized appreciation for all securities in which there was an excess of fair value over tax cost was \$2,058,700, the aggregate gross unrealized depreciation for all securities in which there was an excess of tax cost over fair value was \$30,573,569 and the net unrealized depreciation was \$28,514,869.

Item 2. Controls and Procedures.

- (a) The registrant's Chief Executive Officer and its Chief Financial Officer have concluded that the registrant's disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940 (the "1940 Act")) are effective as of a date within 90 days of the filing date of this report, based on the evaluation of these controls and procedures required by Rule 30a-3(b) under the 1940 Act and Rule 13a-15(b) or 15d-15(b) under the Securities Exchange Act of 1934, as amended.
- (b) There was no change in the registrant's internal control over financial reporting (as defined in Rule 30a-3(d) under the 1940 Act) that occurred during the registrant's last fiscal quarter that has materially affected, or is reasonably likely to materially affect, the registrant's internal control over financial reporting.

Item 3. Exhibits.

Separate certifications for each principal executive officer and principal financial officer of the registrant as required by Rule 30a-2(a) under the 1940 Act (17 CFR 270.30a-2(a)) are filed herewith.

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.

Tortoise MLP Fund, Inc.

Date: October 28, 2010

By: /s/ Terry Matlack
Terry Matlack
Chief Executive Officer

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.

Tortoise MLP Fund, Inc.

Date: October 28, 2010

By: /s/ Terry Matlack
Terry Matlack
Chief Executive Officer

Tortoise MLP Fund, Inc.

Date: October 28, 2010

By: /s/ P. Bradley Adams
P. Bradley Adams
Chief Financial Officer