

Kayne Anderson MLP Investment CO  
Form N-Q  
April 27, 2012  
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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 COMPANY**  
**Investment Company Act file number 811-21593**

**Kayne Anderson MLP Investment Company**

(Exact name of registrant as specified in charter)

717 Texas Avenue, Suite 3100,

Houston, Texas 77002

(Address of principal executive offices) (Zip code)

**David Shladovsky, Esq.**

**KA Fund Advisors, LLC,**

**717 Texas Avenue, Suite 3100,**

**Houston, Texas 77002**

(Name and address of agent for service)

**Registrant's telephone number, including area code: (713) 493-2020**

Date of fiscal year end: November 30, 2012

Date of reporting period: February 29, 2012

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| Description   | No. of<br>Shares/Units | Value     |
|---|------------------------|-----------|
| <b>Long-Term Investments 167.1%</b>                             |                        |           |
| <b>Equity Investments<sup>(1)</sup> 164.3%</b>                  |                        |           |
| <b>Midstream MLP<sup>(2)</sup> 110.8%</b>                       |                        |           |
| Boardwalk Pipeline Partners, LP                                 | 1,032                  | \$ 28,046 |
| Buckeye Partners, L.P.  | 1,405                  | 84,033    |
| Buckeye Partners, L.P. Class B Units <sup>(3)(4)</sup>          | 865                    | 47,087    |
| Chesapeake Midstream Partners, L.P.                             | 1,325                  | 37,830    |
| Copano Energy, L.L.C.   | 1,533                  | 56,994    |
| Crestwood Midstream Partners LP                                 | 1,826                  | 52,663    |
| Crestwood Midstream Partners LP Class C Units <sup>(3)(4)</sup> | 1,134                  | 29,990    |
| Crosstex Energy, L.P.   | 1,200                  | 20,637    |
| DCP Midstream Partners, LP                                      | 2,024                  | 98,567    |
| El Paso Pipeline Partners, L.P.                                 | 4,345                  | 159,336   |
| Enbridge Energy Partners, L.P.                                  | 3,715                  | 120,916   |
| Energy Transfer Partners, L.P.                                  | 1,736                  | 82,294    |
| Enterprise Products Partners L.P.                               | 7,396                  | 383,685   |
| Exterran Partners, L.P.   | 2,878                  | 68,064    |
| Global Partners LP  | 1,974                  | 43,398    |
| Holly Energy Partners, L.P.                                     | 387                    | 23,725    |
| Inergy Midstream, L.P.  | 1,064                  | 22,547    |
| Magellan Midstream Partners, L.P.                               | 2,316                  | 169,457   |
| MarkWest Energy Partners, L.P.                                  | 3,920                  | 234,456   |
| Niska Gas Storage Partners LLC                                  | 1,671                  | 15,772    |
| NuStar Energy L.P.  | 301                    | 18,283    |
| Oiltanking Partners, L.P.                                       | 460                    | 14,890    |
| ONEOK Partners, L.P.  | 2,397                  | 139,520   |
| PAA Natural Gas Storage, L.P.                                   | 1,124                  | 21,577    |
| Plains All American Pipeline, L.P. <sup>(5)</sup>               | 3,161                  | 261,423   |
| Regency Energy Partners LP                                      | 6,393                  | 169,425   |
| Rose Rock Midstream, L.P.                                       | 315                    | 7,514     |
| Spectra Energy Partners, L.P.                                   | 596                    | 19,673    |
| Targa Resources Partners L.P.                                   | 1,873                  | 79,682    |
| TC PipeLines, LP  | 190                    | 8,810     |
| Tesoro Logistics LP   | 502                    | 18,339    |
| Transmontaigne Partners L.P.                                    | 393                    | 13,632    |
| Western Gas Partners L.P.                                       | 1,156                  | 52,921    |
| Williams Partners L.P.  | 2,509                  | 156,076   |
|   |                        | 2,761,262 |

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|   |       |         |
|---|-------|---------|
| <b>MLP Affiliate<sup>(2)</sup> 15.5%</b>          |       |         |
| Enbridge Energy Management, L.L.C. <sup>(4)</sup> | 2,161 | 72,961  |
| Kinder Morgan Management, LLC <sup>(4)</sup>      | 3,900 | 312,700 |
|   |       | 385,661 |
| <b>General Partner MLP<sup>(2)</sup> 11.3%</b>    |       |         |
| Alliance Holdings GP L.P.                         | 1,706 | 85,825  |
| Energy Transfer Equity, L.P.                      | 4,425 | 192,422 |
| NuStar GP Holdings, LLC                           | 74    | 2,592   |
|   |       | 280,839 |

**Table of Contents****KAYNE ANDERSON MLP INVESTMENT COMPANY****SCHEDULE OF INVESTMENTS****FEBRUARY 29, 2012****(amounts in 000 s, except number of option contracts)****(UNAUDITED)**

| <b>Description</b>  | <b>No. of<br/>Shares/Units</b> | <b>Value</b> |
|---|--------------------------------|--------------|
| <b>Shipping MLP 9.0%</b>                                  |                                |              |
| Capital Product Partners L.P.                             | 2,841                          | \$ 21,221    |
| Golar LNG Partners LP                                     | 92                             | 3,419        |
| Navios Maritime Partners L.P.                             | 1,950                          | 31,258       |
| Teekay LNG Partners L.P.                                  | 1,879                          | 73,645       |
| Teekay Offshore Partners L.P.                             | 3,223                          | 94,734       |
|   |                                | 224,277      |
| <b>Midstream 7.6%</b>                                     |                                |              |
| El Paso Corporation <sup>(6)</sup>                        | 656                            | 18,232       |
| Kinder Morgan, Inc.                                       | 854                            | 30,095       |
| ONEOK, Inc.   | 421                            | 34,808       |
| Plains All American GP LLC Unregistered <sup>(4)(5)</sup> | 24                             | 47,538       |
| Targa Resources Corp.                                     | 276                            | 12,280       |
| The Williams Companies, Inc.                              | 1,588                          | 47,440       |
|   |                                | 190,393      |
| <b>Upstream MLP &amp; Income Trust 4.5%</b>               |                                |              |
| BreitBurn Energy Partners L.P.                            | 1,597                          | 30,111       |
| Chesapeake Granite Wash Trust                             | 533                            | 14,807       |
| Legacy Reserves L.P.                                      | 535                            | 15,437       |
| LRR Energy, L.P.  | 243                            | 4,912        |
| Memorial Production Partners LP                           | 318                            | 5,908        |
| Mid-Con Energy Partners, LP                               | 338                            | 8,214        |
| SandRidge Permian Trust                                   | 1,028                          | 24,930       |
| VOC Energy Trust  | 344                            | 7,459        |
|   |                                | 111,778      |
| <b>Coal MLP 3.1%</b>                                      |                                |              |
| Alliance Resource Partner, L.P.                           | 12                             | 883          |
| Penn Virginia Resource Partners, L.P.                     | 3,063                          | 76,382       |
|   |                                | 77,265       |
| <b>Propane MLP 2.4%</b>                                   |                                |              |
| Inergy, L.P.  | 3,510                          | 61,290       |
| <b>Other 0.1%</b>   |                                |              |

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|                                       |     |       |
|---------------------------------------|-----|-------|
| Clearwater Trust <sup>(3)(5)(7)</sup> | N/A | 3,250 |
|---------------------------------------|-----|-------|

|  |  |           |
|--|--|-----------|
| <b>Total Equity Investments (Cost \$2,408,532)</b> |  | 4,096,015 |
|--|--|-----------|

|                                  | <b>Interest<br/>Rate</b> | <b>Maturity<br/>Date</b> | <b>Principal<br/>Amount</b> |        |
|----------------------------------|--------------------------|--------------------------|-----------------------------|--------|
| <b>Debt Investments 2.8%</b>     |                          |                          |                             |        |
| <b>Midstream 1.6%</b>            |                          |                          |                             |        |
| Crestwood Holdings Partners, LLC | (8)                      | 10/1/16                  | \$ 5,549                    | 5,660  |
| Crestwood Midstream Partners LP  | 7.750%                   | 4/1/19                   | 11,750                      | 11,927 |
| Niska Gas Storage Partners LLC   | 8.875                    | 3/15/18                  | 24,000                      | 23,160 |
|                                  |                          |                          |                             | 40,747 |

**Table of Contents****KAYNE ANDERSON MLP INVESTMENT COMPANY****SCHEDULE OF INVESTMENTS****FEBRUARY 29, 2012****(amounts in 000 s, except number of option contracts)****(UNAUDITED)**

| Description  | Interest Rate | Maturity Date | Principal Amount        | Value        |
|--|---------------|---------------|-------------------------|--------------|
| <b>Upstream 0.7%</b>   |               |               |                         |              |
| BreitBurn Energy Partners L.P.   | 7.875%        | 4/15/22       | \$ 2,250                | \$ 2,368     |
| Eagle Rock Energy Partners, L.P.   | 8.375         | 6/1/19        | 975                     | 1,009        |
| Linn Energy, LLC   | 6.250         | 11/1/19       | 13,500                  | 13,500       |
|  |               |               |                         | 16,877       |
| <b>Coal MLP 0.3%</b>   |               |               |                         |              |
| Penn Virginia Resource Partners, L.P.  | 8.250         | 4/15/18       | 6,250                   | 6,531        |
| <b>Other 0.2%</b>  |               |               |                         |              |
| Calumet Specialty Products Partners, L.P.  | 9.375         | 5/1/19        | 4,000                   | 4,190        |
| Calumet Specialty Products Partners, L.P.  | 9.375         | 5/1/19        | 2,000                   | 2,095        |
|  |               |               |                         | 6,285        |
| <b>Total Energy Debt Investments (Cost \$68,794)</b>   |               |               |                         | 70,440       |
| <b>Total Long-Term Investments (Cost \$2,477,326)</b>  |               |               |                         | 4,166,455    |
|  |               |               | <b>No. of Contracts</b> |              |
| <b>Liabilities</b>   |               |               |                         |              |
| <b>Call Option Contracts Written<sup>(9)</sup></b>   |               |               |                         |              |
| <b>Midstream</b>   |               |               |                         |              |
| El Paso Pipeline Partners, L.P., call option expiring 4/20/12 @ \$37.50 (Premiums Received \$88) |               |               | 1,000                   | (50)         |
| <b>Revolving Credit Facility</b>   |               |               |                         | (76,000)     |
| <b>Senior Unsecured Notes</b>  |               |               |                         | (775,000)    |
| <b>Mandatory Redeemable Preferred Stock at Liquidation Value</b>                                 |               |               |                         | (260,000)    |
| <b>Deferred Tax Liability</b>  |               |               |                         | (645,606)    |
| <b>Other Liabilities</b>   |               |               |                         | (200,244)    |
| <b>Total Liabilities</b>   |               |               |                         | (1,956,900)  |
| <b>Other Assets</b>  |               |               |                         | 283,187      |
| <b>Total Liabilities in Excess of Other Assets</b>   |               |               |                         | (1,673,713)  |
| <b>Net Assets Applicable to Common Stockholders</b>  |               |               |                         | \$ 2,492,742 |



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- (1) Unless otherwise noted, equity investments are common units/common shares.
- (2) Includes limited liability companies.
- (3) Fair valued securities, restricted from public sale.
- (4) Distributions are paid-in-kind.
- (5) Kayne Anderson MLP Investment Company (the Company ) believes that it is an affiliate of the Clearwater Trust, Plains All American Pipeline, L.P. and Plains All American GP LLC.
- (6) Security or a portion thereof is segregated as collateral on option contracts written.
- (7) The Company owns an interest in the Creditors Trust of Miller Bros. Coal, LLC ( Clearwater Trust ) consisting of a coal royalty interest.
- (8) Floating rate first lien senior secured term loan. Security pays interest at a rate of LIBOR + 850 basis points, with a 2% LIBOR floor (10.50% as of February 29, 2012).
- (9) Security is non-income producing.

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From time to time, certain of the Company's investments may be restricted as to resale. For instance, private investments that are not registered under the Securities Act of 1933, as amended, cannot be offered for public sale in a non-exempt transaction without first being registered. In other cases, certain of the Company's investments have restrictions such as lock-up agreements that preclude the Company from offering these securities for public sale.

At February 29, 2012, the Company held the following restricted investments:

| Investment                                | Security       | Acquisition Date | Type of Restriction | Number of Units, Principal (\$) (in 000's) | Cost Basis | Fair Value | Percent of Net Assets | Percent of Total Assets |
|---|----------------|------------------|---------------------|--|------------|------------|-----------------------|-------------------------|
| <b>Level 3 Investments<sup>(1)</sup></b>  |                |                  |                     |  |            |            |                       |                         |
| Buckeye Partners, L.P.                    | Class B Units  | (2)              | (3)                 | 865  | 45,006     | \$ 47,087  | 1.9%                  | 1.0%                    |
| Clearwater Trust                          | Trust Interest | (4)              | (5)                 | 1  | 3,266      | 3,250      | 0.1                   | 0.1                     |
| Crestwood Midstream Partners LP           | Class C Units  | 4/1/11           | (3)                 | 1,134                                      | 26,007     | 29,990     | 1.2                   | 0.7                     |
| Plains All American GP LLC <sup>(6)</sup> | Common Units   | (2)              | (5)                 | 24   | 33,040     | 47,538     | 1.9                   | 1.1                     |
| Total                                     |                |                  |                     |  | \$ 107,319 | \$ 127,865 | 5.1%                  | 2.9%                    |
| <b>Level 2 Investments<sup>(7)</sup></b>  |                |                  |                     |  |            |            |                       |                         |
| BreitBurn Energy Partners L.P.            | Senior Notes   | 1/10/12          | (3)                 | \$ 2,250                                   | \$ 2,231   | \$ 2,368   | 0.1%                  | 0.1%                    |
| Crestwood Holdings Partners LLC           | Bank Loan      | 9/29/10          | (5)                 | 5,549                                      | 5,458      | 5,660      | 0.2                   | 0.1                     |
| Crestwood Midstream Partners LP           | Senior Notes   | (2)              | (3)                 | 11,750                                     | 11,739     | 11,926     | 0.5                   | 0.3                     |
| Linn Energy, LLC                          | Senior Notes   | 2/28/12          | (3)                 | 13,500                                     | 13,499     | 13,500     | 0.5                   | 0.3                     |
| Total                                     |                |                  |                     |  | \$ 32,927  | \$ 33,454  | 1.3%                  | 0.8%                    |
| Total of all restricted securities        |                |                  |                     |  | \$ 140,246 | \$ 161,319 | 6.4%                  | 3.7%                    |

- (1) Securities are valued using inputs reflecting the Company's own assumptions.
- (2) Securities acquired at various dates throughout the fiscal year ended November 30, 2011.
- (3) Unregistered or restricted security of a publicly tracked company.
- (4) On September 28, 2010, the Bankruptcy Court finalized the plan of reorganization of Clearwater. As part of the plan of reorganization, the Company received an interest in the Clearwater Trust consisting of cash and a coal royalty interest as consideration for its unsecured loan to Clearwater.
- (5) Unregistered security of a private company or trust.
- (6) In determining the fair value for Plains All American GP, LLC ( PAA GP ), the Company's valuation is based on publicly available information. Robert V. Sinnott, the CEO of Kayne Anderson Capital Advisors, L.P. ( KACALP ), sits on PAA GP's board of directors. Certain private investment funds managed by KACALP may value its investment in PAA GP based on non-public information, and, as a result, such valuation may be different than the Company's valuation.
- (7) These securities have a fair market value determined by the mean of the bid and ask prices provided by an agent or syndicate bank, principal market maker or an independent pricing service. These securities have limited trading volume and are not listed on a national exchange.

At February 29, 2012, the cost basis of investments for federal income tax purposes was \$2,313,393. At February 29, 2012, gross unrealized appreciation and depreciation of investments for federal income tax purposes were as follows:

|  |              |
|--|--------------|
| Gross unrealized appreciation of investments | \$ 1,860,389 |
| Gross unrealized depreciation of investments | (7,326)      |

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|                             |              |
|-----------------------------|--------------|
| Net unrealized appreciation | \$ 1,853,063 |
|-----------------------------|--------------|

The identified cost basis of federal tax purposes is estimated based on information available from the Company's portfolio companies. In some cases, this information is very limited. Accordingly, the actual cost basis may prove higher or lower than the estimated cost basis included above.

As required by the Fair Value Measurement and Disclosures of the Financial Accounting Standards Board ( FASB ) Accounting Standards Codification, the Company has performed an analysis of all assets and liabilities measured at fair value to determine the significance and character of all inputs to their fair value determination.

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The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into the following three broad categories. Note that the valuation levels below are not necessarily an indication of the risk or liquidity associated with the underlying investment.

*Level 1* Quoted unadjusted prices for identical instruments in active markets traded on a national exchange to which the Company has access at the date of measurement.

*Level 2* Quoted prices for similar instruments in active markets; quoted prices for identical or similar instruments in markets that are not active; and model-derived valuations in which all significant inputs and significant value drivers are observable in active markets. Level 2 inputs are those in markets for which there are few transactions, the prices are not current, little public information exists or instances where prices vary substantially over time or among brokered market makers.

*Level 3* Model derived valuations in which one or more significant inputs or significant value drivers are unobservable. Unobservable inputs are those inputs that reflect the Company's own assumptions that market participants would use to price the asset or liability based on the best available information.

The following table presents the Company's assets measured at fair value on a recurring basis at February 29, 2012. The Company presents these assets by security type and description on its Schedule of Investments.

|                                  | Total        | Quoted Prices in Active Markets (Level 1) | Prices with Other Observable Inputs (Level 2) | Unobservable Inputs (Level 3) |
|----------------------------------|--------------|---|---|-------------------------------|
| <b>Assets at Fair Value</b>      |              |   |   |                               |
| Equity investments               | \$ 4,096,015 | \$ 3,968,150                              | \$  | \$ 127,865                    |
| Debt investments                 | 70,440       |   | 70,440  |                               |
| Total assets at fair value       | \$ 4,166,455 | \$ 3,968,150                              | \$ 70,440                                     | \$ 127,865                    |
| <b>Liabilities at Fair Value</b> |              |   |   |                               |
| Call option contracts written    | \$ 50        | \$  | \$ 50   | \$                            |

The Company did not have any liabilities that were measured at fair value on a recurring basis using significant unobservable inputs (Level 3) at February 29, 2012 or at November 30, 2011. For the three months ended February 29, 2012, there were no transfers between Level 1 and Level 2.

The following table presents the Company's assets measured at fair value on a recurring basis using significant unobservable inputs (Level 3) for the three months ended February 29, 2012.

|                           | Equity Investments |
|---------------------------|--------------------|
| Balance November 30, 2011 | \$ 164,129         |
| Purchases                 |                    |
| Issuances                 | 1,427              |
| Transfers out             | (40,711)           |
| Realized gains (losses)   |                    |
| Unrealized gains, net     | 3,020              |

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|         |                   |            |
|---------|-------------------|------------|
| Balance | February 29, 2012 | \$ 127,865 |
|---------|-------------------|------------|

The \$3,020 of unrealized gains presented in the table above for the three months ended February 29, 2012 related to investments that are still held at February 29, 2012.

The issuances of \$1,427 relate to additional units received from Buckeye Partners, L.P. (Class B Units) and Crestwood Midstream Partners LP (Class C Units). The Company's investments in the common units of Teekay Offshore Partners L.P., which is noted as a transfer out of Level 3 in the table above, became readily marketable during the three months ended February 29, 2012.

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As required by the Derivatives and Hedging Topic of the FASB Accounting Standards Codification, the following are the derivative instruments and hedging activities of the Company.

The following table sets forth the fair value of the Company's derivative instruments.

| Derivatives Not Accounted for as | Statement of Assets and Liabilities Location | Fair Value as of  |
|----------------------------------|--|-------------------|
| Hedging Instruments              | February 29, 2012                            | February 29, 2012 |
| Call options                     | Call option contracts written                | \$(50)            |

The following table set forth the effect of the Company's derivative instruments.

| Derivatives Not Accounted for as | Location of Gains/(Losses) on    | For the Three Months Ended<br>February 29, 2012                             |  |
|----------------------------------|----------------------------------|---|--|
|                                  |                                  | Net Realized<br>Gains/(Losses) on<br>Derivatives<br>Recognized in<br>Income | Change in<br>Unrealized<br>Gains/(Losses) on<br>Derivatives<br>Recognized in<br>Income |
| Hedging Instruments              | Derivatives Recognized in Income | Income  | Income   |
| Call options                     | Options                          | \$356   | \$(55)   |

Securities valuation policies and other investment related disclosures are hereby incorporated by reference to the Company's annual report previously filed with the Securities and Exchange Commission on form N-CSR on February 7, 2012 with a file number 811-21593.

Other information regarding the Company is available in the Company's most recent annual report. This information is also available on the Company's website at [www.kaynefunds.com](http://www.kaynefunds.com); or on the website of the Securities and Exchange Commission, [www.sec.gov](http://www.sec.gov).

**Item 2: Controls and Procedures**

(a) As of a date within 90 days from the filing date of this report, the principal executive officer and principal financial officer concluded that the registrants disclosure controls and procedures (as defined in Rule 30a-3(c) under the Investment Company Act of 1940, as amended (the Act)), were effective based on their evaluation of the disclosure controls and procedures required by Rule 30a-3(b) under the Act and Rules 13a-15(b) or 15d-15(b) under the Securities and Exchange Act of 1934, as amended.

(b) There were no changes in the registrants internal control over financial reporting (as defined in Rule 30a-3(d) under the Act) that occurred during the registrants last fiscal quarter that have materially affected, or are reasonably likely to materially affect, the registrants internal control over financial reporting.

**Item 3: Exhibits**

1. The certifications of the registrant as required by Rule 30a-2(a) under the Act are exhibits to this report.

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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.

KAYNE ANDERSON MLP INVESTMENT  
COMPANY

/s/ KEVIN S. McCARTHY  
Name: Kevin S. McCarthy

Title: Chairman of the Board of Directors,  
President and Chief Executive Officer

Date: April 27, 2012

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.

/s/ KEVIN S. McCARTHY  
Name: Kevin S. McCarthy

Title: Chairman of the Board of Directors,  
President and Chief Executive Officer

Date: April 27, 2012

/s/ TERRY A. HART  
Name: Terry A. Hart

Title: Chief Financial Officer and Treasurer  
Date: April 27, 2012