

KAYNE RICHARD A

Form 4/A

July 16, 2009

FORM 4**UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

Check this box
if no longer
subject to
Section 16.
Form 4 or
Form 5
obligations
may continue.
See Instruction
1(b).

**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

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(Print or Type Responses)

1. Name and Address of Reporting Person *
KAYNE RICHARD A

2. Issuer Name and Ticker or Trading
Symbol
Kayne Anderson MLP Investment
CO [KYN]

5. Relationship of Reporting Person(s) to
Issuer

(Check all applicable)

(Last) (First) (Middle)

1800 AVENUE OF THE
STARS, SECOND FLOOR

(Street)

3. Date of Earliest Transaction
(Month/Day/Year)
01/07/2009

____ Director ____ 10% Owner
____ Officer (give title ____X____ Other (specify
below) below)
CEO of Investment Advisor

LOS ANGELES, CA 90067

4. If Amendment, Date Original
Filed(Month/Day/Year)
01/08/2009

6. Individual or Joint/Group Filing(Check
Applicable Line)
X Form filed by One Reporting Person
____ Form filed by More than One Reporting
Person

(City) (State) (Zip)

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired or Disposed of (D) (Instr. 3, 4 and 5) | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership (Instr. 4) |
|---------------------------------------|---|---|--------------------------------------|---|--|--|---|
| | | | Code | V | Amount | (A) or (D) | Price |
| Common Stock | 01/07/2009 | | P | | 10,000 | A | \$ 17.24 |
| | | | | | | | 80,646 |
| | | | | | | | D |
| Common Stock | 01/07/2009 | | P | | 15,685 | A | \$ 17.05 |
| | | | | | | | 96,331 |
| | | | | | | | D |

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form
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SEC 1474
(9-02)

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Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Nu Deriv Secur Benef Own Follo Repor Trans (Instr |
|---|--|---|---|--------------------------------------|--|--|---|---|--|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|------------------------------|
| | Director | 10% Owner | Officer | Other |
| KAYNE RICHARD A 1800 AVENUE OF THE STARS SECOND FLOOR LOS ANGELES, CA 90067 | | | | CEO of Investment Advisor |

Signatures

Richard A.
Kayne 07/16/2009

__Signature of
Reporting Person Date

Explanation of Responses:

* If the form is filed by more than one reporting person, *see* Instruction 4(b)(v).

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. *See* 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure.
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