

KAYNE RICHARD A  
 Form 4/A  
 December 05, 2008

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

OMB APPROVAL  
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**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

(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)  
 11/28/2008

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

LOS ANGELES, CA 90067

4. If Amendment, Date Original Filed(Month/Day/Year)  
 12/02/2008

6. Individual or Joint/Group Filing(Check Applicable Line)  
 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 (A) 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 Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  |                                | Code V  | Amount  | (A) or (D)   | Price                                      |
| Common Stock                    | 11/28/2008                           |  | S <sup>(1)</sup>               | 38,845  | D   | \$ 13.27   | 104,127 D                                  |
| Common Stock                    | 11/28/2008                           |  | S <sup>(1)</sup>               | 25,660  | D   | \$ 13.27   | 90,646 D                                   |

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

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SEC 1474 (9-02)

