

Kayne Anderson MLP Investment CO
 Form 3
 May 25, 2010

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0104
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

INITIAL STATEMENT OF 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 * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| Â METROPOLITAN LIFE INSURANCE CO/NY | | (Month/Day/Year) | Kayne Anderson MLP Investment CO [KYN] | |
| (Last) | (First) | 05/07/2010 | | |
| 10 PARK AVENUE,Â P.O. BOX 1902 | | | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| (Street) | | | (Check all applicable) | |
| MORRISTOWN,Â NJÂ 07962 | | | <input type="checkbox"/> Director | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| (City) | (State) | (Zip) | <input checked="" type="checkbox"/> 10% Owner | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| | | | <input type="checkbox"/> Officer | <input type="checkbox"/> Form filed by More than One Reporting Person |
| | | | (give title below) | (specify below) |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---|--|---|--|
| Kayne Anderson MLP Investment Company <u>(1)</u> | \$ 16,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(2)</u> | \$ 2,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(3)</u> | \$ 21,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(4)</u> | \$ 4,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(5)</u> | 380,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(6)</u> | 900,000 | D | Â |

