

Kayne Anderson MLP Investment CO
 Form 3
 March 15, 2010

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

OMB APPROVAL

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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) | (Middle) | | 4. Relationship of Reporting Person(s) to Issuer | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| 10 PARK AVENUE,Â P.O. BOX 1902 | | | | (Check all applicable) | |
| (Street) | | | | <input type="checkbox"/> Director | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| MORRISTOWN,Â NJÂ 07962 | | | | <input checked="" type="checkbox"/> 10% Owner | <input checked="" type="checkbox"/> Form filed by One Reporting Person |
| (City) | (State) | (Zip) | | <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> | \$ 18,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(2)</u> | \$ 22,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(3)</u> | \$ 2,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(4)</u> | 200,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(5)</u> | 1,000,000 | D | Â |
| Kayne Anderson MLP Investment Company <u>(6)</u> | 200,000 | D | Â |

