

Kayne Anderson MLP Investment CO  
 Form 3  
 March 15, 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 <b>and</b> Ticker or Trading Symbol	
Â METROPOLITAN LIFE INSURANCE CO/NY			(Month/Day/Year)	Kayne Anderson MLP Investment CO [KYN]	
(Last)	(First)	(Middle)	03/05/2010		
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 <input checked="" type="checkbox"/> 10% Owner <input type="checkbox"/> Officer <input type="checkbox"/> Other (give title below)    (specify below)		6. Individual or Joint/Group Filing(Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
(City)	(State)	(Zip)			

**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

