

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)	03/05/2010		
10 PARK AVENUE,Â P.O. BOX 1902			4. Relationship of Reporting Person(s) to Issuer		
(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)		
(City)	(State)	(Zip)	5. If Amendment, Date Original Filed(Month/Day/Year)		
			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		

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

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

SEC 1473 (7-02)

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

1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date <small>(Month/Day/Year)</small>		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares			

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
METROPOLITAN LIFE INSURANCE CO/NY 10 PARK AVENUE P.O. BOX 1902 MORRISTOWN, NJ 07962	^	^ X	^	^

Signatures

/s/ Daniel F. Scudder, Assistant General Counsel	03/05/2010
<small>**Signature of Reporting Person</small>	<small>Date</small>

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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).

- (1) 4.15% Series D Senior Unsecured Note due March 5, 2015
- (2) Floating Rate Series E Senior Unsecured Note due March 5, 2015
- (3) 4.15% Series D Senior Unsecured Note due March 5, 2015
- (4) Series A Mandatory Redeemable Preferred Shares
- (5) Series A Mandatory Redeemable Preferred Shares
- (6) Series A Mandatory Redeemable Preferred Shares

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.