

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		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

