

Kayne Anderson MLP Investment CO
 Form 3
 June 26, 2008

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 *
 SEPARATE ACCOUNT B OF ING USA ANNUITY LIFE INSURANCE CO
 (Last) (First) (Middle)

2. Date of Event Requiring Statement
 (Month/Day/Year)
 06/19/2008

3. Issuer Name and Ticker or Trading Symbol
 Kayne Anderson MLP Investment CO [KYN]

C/O ING INVESTMENT MANAGEMENT LLC, 5780 POWERS FERRY ROAD, NW, SUITE 300

(Street)

ATLANTA, GA 30327-4347

(City) (State) (Zip)

4. Relationship of Reporting Person(s) to Issuer
 (Check all applicable)

5. If Amendment, Date Original Filed(Month/Day/Year)

Director 10% Owner
 Officer Other
 (give title below) (specify below)
 See explanation below.

6. Individual or Joint/Group Filing(Check Applicable Line)
 Form filed by One Reporting Person
 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)
5.645% Series G Sr. Unsecured Notes due 2011	\$ 4,000,000	D	^
5.847% Series I Sr. Unsecured Notes due 2012	\$ 5,500,000	D	^
5.991% Series K Sr. Unsecured Notes due 2013	\$ 13,000,000	D	^

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

SEC 1473 (7-02)

Persons who respond to the collection of information contained in this form are not

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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 (Month/Day/Year)	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
SEPARATE ACCOUNT B OF ING USA ANNUITY LIFE INSURANCE CO C/O ING INVESTMENT MANAGEMENT LLC 5780 POWERS FERRY ROAD, NW, SUITE 300 ATLANTA, GA 30327-4347	^	^	^	See explanation below.

Signatures

/s/Christopher P. Lyons, Senior Vice
President, ING Investment Management LLC, as Agent
06/23/2008

__Signature of Reporting Person Date

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).

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Remarks:

Filed pursuant to Section 30(h) of the Investment Company Act of 1940. The reporting party and

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, See Instruction 6 for procedure.

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