

KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC.  
 Form 4  
 March 26, 2012

**FORM 4**

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

OMB APPROVAL

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Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

**STATEMENT OF CHANGES IN 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 \*  
 ING LIFE INSURANCE & ANNUITY CO

(Last) (First) (Middle)

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

(Street)

ATLANTA, GA 30327

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol  
 KAYNE ANDERSON MIDSTREAM/ENERGY FUND, INC. [KMF]

3. Date of Earliest Transaction (Month/Day/Year)  
 03/22/2012

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 \_\_\_\_ Officer (give title below)  Other (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 Acquired, Disposed of, or Beneficially Owned**

| 1. Title of Security (Instr. 3)                   | 2. Transaction Date (Month/Day/Year) | 2A. Deemed Execution Date, if any (Month/Day/Year) | 3. Transaction Code (Instr. 8) | 4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) | (A) or (D) | Amount       | Price | 5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Beneficial Ownership (Instr. 4) |
|---|--------------------------------------|--|--------------------------------|---|------------|--------------|-------|---|--|---|
| 4.00% Series C Unsecured Notes due March 22, 2022 | 03/22/2012                           |  | P                              | 1,100,000   | A          | \$ 1,100,000 |       | \$ 1,100,000  | D  |   |
| Series B Mandatory Redeemable Preferred           | 03/22/2012                           |  | P                              | 28,000,000  | A          | \$ 25        |       | 28,000,000  | D  |   |

Shares

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

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(9-02)

**Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned**  
(e.g., puts, calls, warrants, options, convertible securities)

| 1. Title of Derivative Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any (Month/Day/Year) | 4. Transaction Code (Instr. 8) | 5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5) | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 6) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|---|
|  |  |                                      |  | Code                           | V (A) (D)   | Date Exercisable   | Expiration Date   | Title                                      | Amount or Number of Shares  |

## Reporting Owners

### Reporting Owner Name / Address

### Relationships

Director 10% Owner Officer Other

ING LIFE INSURANCE & ANNUITY CO  
C/O ING INVESTMENT MANAGEMENT  
5780 POWERS FERRY ROAD, NW, SUITE 300  
ATLANTA, GA 30327

See explanation below

## Signatures

/s/ Christopher P. Lyons, Senior Vice President, ING Investment Management, LLC, as agent

03/26/2012

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

\* If the form is filed by more than one reporting person, see Instruction 4(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).

### Remarks:

Filed pursuant to Section 30(h) of the Investment Company Act of 1940. The reporting party and its affiliates own in excess of

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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