

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 \*  
 Sun Life Assurance CO of Canada

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

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

\_\_\_ Director \_\_\_X\_\_\_ 10% Owner  
 \_\_\_ Officer (give title below) \_\_\_ Other (specify below)

(Last) (First) (Middle)

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

150 KING STREET WEST,  
 (Street)

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

6. Individual or Joint/Group Filing(Check Applicable Line)  
 \_\_\_ Form filed by One Reporting Person  
 \_\_\_X\_\_\_ Form filed by More than One Reporting Person

TORONTO, A6 M5H 1J9  
 (City) (State) (Zip)

**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 Senior Unsecured Notes due March 22, 2022 | 03/22/2012                           |  | P                              | 10,000,000  | A          | \$ 10,000,000 | \$ 25,000,000 |   | D  |   |
| 4.00% Series C Senior Unsecured                          | 03/22/2012                           |  | P                              | 10,000,000  | A          | \$ 10,000,000 | \$ 25,000,000 |   | I  | See below.  |

Notes due  
March 22,  
2022

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

**Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.** SEC 1474 (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 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 |
| Sun Life Assurance CO of Canada<br>150 KING STREET WEST<br>TORONTO, A6 M5H 1J9                                      |               | X         |         |       |
| SUN LIFE FINANCIAL INC<br>SUN LIFE ASSURANCE CO OF CANADA<br>150 KING STREET WEST SUITE 1400<br>TORONTO, A6 M5H 1J9 |               | X         |         |       |

## Signatures

|  |            |
|--|------------|
| /s/ John T. Donnelly, Senior Managing Director, Investment Operations, on behalf of Sun Life Assurance Company of Canada | 03/26/2012 |
| **Signature of Reporting Person  | Date       |
| /s/ Ann King, Assistant Vice President and Senior Counsel  | 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:

Sun Life Financial Inc. owns 100% of the outstanding shares of common stock of Sun Life Assurance Company of Canada, th

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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