

| 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**

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

|  |  |   |
|--|--|---|
| <b>1. Name and Address of Reporting Person *</b><br>Ogunlesi Adebayo O.<br><br>(Last) (First) (Middle)<br>C/O KOSMOS ENERGY, LLC, 8176 PARK LANE, SUITE 500<br><br>(Street)<br>DALLAS TX 75231<br><br>(City) (State) (Zip) | <b>2. Issuer Name and Ticker or Trading Symbol</b><br>Kosmos Energy Ltd. [KOS] | <b>5. Relationship of Reporting Person(s) to Issuer</b><br>(Check all applicable)<br><input checked="" type="checkbox"/> Director 10% Owner<br><br>Officer (give title below) Other (specify below) |
|  | <b>3. Date of Earliest Transaction</b><br>(Month/Day/Year)<br>05/16/2011       |   |
|  | <b>4. If Amendment, Date of Original Filed</b><br>(Month/Day/Year)             |   |

**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) |            |                     | 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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|---------------------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price               |   |  |   |
| Common Shares                   | 05/16/2011                           |  | J <sup>(1)</sup>               |   | 1,369,216   | A          | \$ 0 <sup>(1)</sup> | 1,369,216   | D  |   |

| Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned<br>(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(s) (Instr. 4) | 10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|   |  |                                      |  | Code                           | V | (A)   | (D) | Date Exercisable   | Expiration Date |   |  |  |  |  |

**Explanation of Responses:**

1. In connection with a corporate reorganization, which involved Kosmos Energy Holdings becoming wholly-owned by the Issuer, and the Issuer's initial public offering described in the prospectus dated May 11, 2011, the reporting person received 1,369,216 common shares in exchange for his vested units in Kosmos Energy Holdings, the Issuer's predecessor.

/s/ Phillip Feiner, as  
Attorney-in-Fact  
 \*\* Signature of Reporting Person  
05/18/2011  
 Date

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

\* 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).

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

**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 Number.**