

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

| OMB APPROVAL | |
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|--|---|---|
| 1. Name and Address of Reporting Person* <u>London Ryan C</u> (Last) (First) (Middle) 5400 LBJ FREEWAY SUITE 1500 (Street) DALLAS TX 75240 (City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol <u>Matador Resources Co [MTRD]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title below) Other (specify below) <u>VP and General Manager</u> |
| | 3. Date of Earliest Transaction (Month/Day/Year) 04/16/2014 | |
| | | 6. Individual or Joint/Group Filing (Check Applicable Line) X 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) | | | 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 Stock | 04/16/2014 | | F | | 642 ⁽¹⁾ | D | \$26.03 | 79,678 ⁽²⁾⁽³⁾⁽⁴⁾⁽⁵⁾⁽⁶⁾⁽⁷⁾ | D | |

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) | | 6. Date Exercisable and Expiration Date (Month/Day/Year) | | 7. Title and Amount of Securities Underlying Derivative Security (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: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----|---|--|--|---|--|
| | | | | Code | V | (A) | (D) | | | | | |

Explanation of Responses:

- Represents shares withheld by the Issuer to satisfy tax liability in connection with the vesting of restricted stock. No shares were sold.
- Includes 20,032 shares of restricted stock granted to the reporting person on March 7, 2014. Such shares of restricted stock will vest in two equal biennial installments beginning on the second anniversary of the date of grant, March 7, 2016.
- Includes 5,074 shares of restricted stock granted to the reporting person on February 11, 2014. Such shares of restricted stock will vest in two equal biennial installments beginning on the second anniversary of the date of grant, February 11, 2016.
- Includes 19,500 shares of restricted stock granted to the reporting person on March 12, 2013. Such shares of restricted stock will vest following the fourth anniversary of the date of grant, March 12, 2017.
- Includes 4,688 shares of restricted stock granted to the reporting person on April 16, 2012, less 642 shares withheld by the Issuer to satisfy tax liability in connection with the April 16, 2014 vesting of 2,344 shares. The remaining 2,344 shares of restricted stock will vest on the fourth anniversary of the date of grant, April 16, 2016.
- Includes 4,688 shares of restricted stock granted to the reporting person on April 16, 2012. Such shares of restricted stock will vest following the third anniversary of the date of grant, April 16, 2015, in an amount to be determined based upon the achievement of certain performance conditions as specified in the reporting person's award agreement.
- Includes 4,688 restricted stock units granted to the reporting person on April 16, 2012. Such restricted stock units will vest, and an applicable number of shares of common stock will be deliverable to the reporting person, following the third anniversary of the date of grant, April 16, 2015, in an amount to be determined based upon the achievement of certain performance conditions as specified in the reporting person's award agreement.

Remarks:

/s/ Ryan C. London

04/18/2014

** Signature of Reporting Person

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.