

CLIFFS NATURAL RESOURCES INC.

Reported by
BOOR WILLIAM C

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 03/14/12 for the Period Ending 03/12/12

| | |
|-------------|--|
| Address | 200 PUBLIC SQUARE STE. 3300 CLEVELAND, OH 44114-2315 |
| Telephone | 216-694-5700 |
| CIK | 0000764065 |
| Symbol | CLF |
| SIC Code | 1000 - Metal Mining |
| Industry | Metal Mining |
| Sector | Basic Materials |
| Fiscal Year | 12/31 |

FORM 4

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

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

OMB APPROVAL
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**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(f) of the
Investment Company Act of 1940

| | | | | | | | | |
|---|---------|----------|---|--|--|--|--|--|
| 1. Name and Address of Reporting Person * | | | 2. Issuer Name and Ticker or Trading Symbol | | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) | | |
| Boor William C | | | CLIFFS NATURAL RESOURCES INC. [CLF] | | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) SVP, Global Ferroalloys. | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (MM/DD/YYYY) | | | | | |
| | | | 3/12/2012 | | | | | |
| 200 PUBLIC SQUARE, SUITE 3300 | | | 4. If Amendment, Date Original Filed (MM/DD/YYYY) | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | |
| (Street) | | | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person | | |
| CLEVELAND, OH 44114-2315 | | | | | | <input type="checkbox"/> Form filed by More than One Reporting Person | | |
| (City) (State) (Zip) | | | | | | | | |

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

| 1. Title of Security (Instr. 3) | 2. Trans. Date | 2A. Deemed Execution Date, if any | 3. Trans. 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 | 3/12/2012 | | A | | 1770 (1) | A | \$ 0 | 34378.7724 (2) | D | |
| Common Stock | | | | | | | | 16891 | I | VNQDC (3) |

Table II - Derivative Securities Beneficially Owned (e.g. , puts, calls, warrants, options, convertible securities)

| 1. Title of Derivate Security (Instr. 3) | 2. Conversion or Exercise Price of Derivative Security | 3. Trans. Date | 3A. Deemed Execution Date, if any | 4. Trans. 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 | | 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 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) Reflects the number of restricted share units granted to the Reporting Person on March 12, 2012 for the Performance Period 2012 to 2014 from the Issuer's Amended and Restated Cliffs 2007 Incentive Equity Plan.
- (2) The amount shown reflects 54.3361 shares credited on March 2, 2012 to the Reporting Person pursuant to the Dividend Reinvestment and Stock Purchase Plan.
- (3) Held for the benefit of the Reporting Person by the Issuer's 2005 Voluntary Non-Qualified Deferred Compensation Plan ("VNQDC").

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---|---------------|-----------|---------------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Boor William C 200 PUBLIC SQUARE SUITE 3300 CLEVELAND, OH 44114-2315 | | | SVP, Global Ferroalloys. | |

Signatures

/s/ Keirsten Riedel By Power of Attorney

3/14/2012

** 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 control number.