## FORM 4

(Print or Type Responses)

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
hours per response... 0.5

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

Reporting Owner Name / Address

#### STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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

| Derivative Conversion Security (Instr. 3) Price of Conversion Price of Conversion (Month/Day/Year) Price of Conversion (Month/Day/Year) Conversion (Month/Day/Year) (Instr. 8) Derivative (Month/Day/Year) (Instr. 8) Derivative (Month/Day/Year) Amount of Underlying Security Security Securities (Instr. 5) Beneficially Derivative Ownership of Indication Date (Month/Day/Year) (Instr. 5) Derivative Ownership of Indication Date (Month/Day/Year) (Instr. 5) Derivative Ownership Of Indication Date (Month/Day/Year) Ownership Of Indication Date (Month/Day/Year) Ownership Of Indication Date (Month/Day/Year) Ownership Owner | 1. Name and Address of Reporting Person * Boor William C                 |             |                          |          |                               | CLI  | 2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF] |        |   |                    |  |        |   | C.  | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director X Officer (give title below)  Other (specify below) |   |   |   |           |           |
|--|--|-------------|--------------------------|----------|-------------------------------|--|---|--------|---|--------------------|--|--------|---|---|---|---|---|---|-----------|-----------|
| CLEVELAND, OH 44114-2315   Common Stock   Common Stock   O6/15/2011   S   100   D   S   S   49.92   22.112.3491   D   Common Stock   O6/15/2011   S   100   D   S   S   S   2.1912.3491   D   Common Stock   O6/15/2011   S   100   D   S   S   S   S   S   S   S   S   S  |  |             |                          |          |                               | 3. Date of Earliest Transaction (Month/Day/Year) |   |        |   |                    |  |        | <b> </b>  | SVP,  | Global Fer  | roalloys.   |   |   |           |           |
| Clebe   Charles   Charle   | <u> </u>   |             |                          |          |                               | 4. If  |   |        |   |                    |  |        |   | ear)  |   |   |   |   |           |           |
| 1. Title of Security (Instr. 3)   2. Transaction Date (Month/Day/Year)   2. Transaction Date (   | CLEVELAND, OH 44114-2315   |             |                          |          |                               |  |   |        |   |                    |  |        |   |   |   |   |   |   |           |           |
| Date (Month/Day/Year)   Date (Month/Day/Year)   Code   V Amount (10)   Price   Report of Transaction(s)   Code   V Amount (10)   Price   Common Stock   06/15/2011   S   100   D   84,9325   22,712.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9325   22,712.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9325   22,312.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9325   22,312.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   100   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   D   Common Stock   06/15/2011   S   1,000   D   84,9262   21,912.3491   D   D   D   Common Stock   06/15/2011   S   D   D   D   D   D   D   D   D   D   | (City  | <i>i</i> )  | (State)                  |          | (Zip)                         |  |   | Tab    | ole I - I   | Non-               | -Derivat   | tive S | Securi  | ties Acqu   | iired, Disp   | osed of, or l   | Beneficially  | Owned                                       |           |           |
| Common Stock   | I  |             | Date<br>(Month/Day/Year) |          | Execut<br>any                 | Execution Date, if                               |   | ode    |   | or Disposed of (D) |  |        | Beneficially Owned Following<br>Reported Transaction(s) |   |   | Ownership<br>Form:  | nip of<br>Be  | Indirect eneficial                          |           |           |
| Security    |  |             |                          |          |                               | (Month/Day/Year)                                 |   |        | Code V  |                    | V Amo  | or     |   | (IIIST. 3 and 4)                                      |   |   | or Indire   | ect (II                                     |           |           |
| Common Stock   | Commor   | n Stock     |                          | 06/15    | 5/2011                        |  |   |        | S   |                    | 100  |        | D   | \$<br>84.932  | 5 22,712  | 2.3491  |   | D   |           |           |
| Common Stock   | Common   | n Stock     |                          | 06/15    | 5/2011                        |  |   |        | S   |                    | 300  |        | D   | \$ 84.94  | 1 22,412.3491   |   |   | D   |           |           |
| Common Stock 06/15/2011 S 100 D \$84.9262 21,912.3491 D  Common Stock 06/15/2011 S 1,000 D \$84.9245 21,812.3491 D  Common Stock 06/15/2011 S 1,000 D \$84.91 20,812.3491 D  Common Stock 16,764 D I S VNQD (2)  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.  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  1. Title of 2. Security (Instr. 3) Derivative Security (Instr. 3) A. Deemed Execution Date, in or Exercise (Instr. 8) Price of Price of Price of Price of Other Code (Instr. 8) Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3) A, and 5)  Date Exercisable (Instr. 3) A, and 5)  Date Exercisable (Instr. 4) Date Exercisable (Instr. 5) Date Exercisable (Instr. 4) Date Exercisable (Instr. 5) Date Exercisable (Instr. 4) Date Exercisable (Instr. 4) Date Exercisable (Instr. 5) Date Exercisable (Instr. 4) Date Exercisable (Instr. 5) Date Date (Instr. 5) Date Exercisable (Instr. 4) Date Exercisable (Instr. 4) Date Exercisable (Instr. 5) Date Date (Instr. 5) Date Date Expiration Date (Instr. 4) Date Exercisable (Instr. 5) Date Date Date Date Date Date Date Date                              | Commor   | n Stock     |                          | 06/15    | 15/2011                       |  |   | S      |   |                    | 100  |        | D   | \$ 84.95  | 22,312  | 22,312.3491   |   | D   |           |           |
| Common Stock 06/15/2011 S 100 D S 84.9245 21,812.3491 D Common Stock 06/15/2011 S 1,000 D S 84.91 20,812.3491 D I By VNQD Common Stock 16,764 D I By VNQD Comm | Common Stock   |             | 06/15                    | 5/2011   |                               |  |   | S      |   | 300                |  | D      | \$ 84.92  | 2 22,012  | 22,012.3491   |   | D   |   |           |           |
| Common Stock    Common Stock   | Common Stock   |             | 06/15                    | 5/2011   |                               |  |   | S      |   | 100                | 1  | D      | \$<br>84.926  | 2 21,912  | 21,912.3491   |   | D   |   |           |           |
| 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.    Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)   Title of 2   | Common Stock   |             | 06/15                    | 5/2011   |                               |  |   | S      |   | 100                |  | D      | \$<br>84.924  | 5 21,812  | 21,812.3491   |   | D   |   |           |           |
| Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.  Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)  1. Title of 2. Derivative Conversion Date (or Exercise (Instr. 3))  Price of Derivative Security  Security  (Instr. 3)  Number of Derivative Securities  (Instr. 3)  Date Expraction Date (Instr. 3)  Derivative Securities  (Instr. 3)  Date Expraction Title  Date Expiration Title  Date Expiration Title  Date Expiration Title  Number of Derivative Securities  (Instr. 4)  Date Expiration Title  Number of Derivative Securities  (Instr. 4)  Date Expiration Title  Number of Derivative Securities  (Instr. 4)  Date Expiration Title  Number of Derivative Securities  Number of Underlying Securities  (Instr. 4)  Derivative Securities  Number of Derivative Securities  Number of Underlying Securities  (Instr. 3)  Number of Derivative Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Derivative Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Derivative Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Derivative Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Underlying Securities  Number of Derivative Securities  Number of Derivative Securities  Number of Underlying Securities  Number of Derivative Securities  Number of Derivat | Common Stock   |             | 06/15                    | 5/2011   |                               |  |   | S      |   | 1,00               | 1,000 D \$84.91 20,8   |        | 20,812  | 312.3491 D  |   | D   |   |   |           |           |
| Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)   Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)   Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)   Table II - Derivative Securities Acquired (e.g., puts, calls, warrants, options, convertible securities)   Transaction Date (e.g., puts, calls, warrants, options, convertible securities)   Transaction Date (e.g., puts, calls, warrants, options, convertible securities)   Transaction Date (e.g., puts, calls, warrants, options, convertible securities)   Transaction Date (Month/Day/Year) (Instr. 3)   | Common Stock   |             |                          |          |                               |  |   |        |   |                    |  |        |   | 16,764  | <u>(1)</u>  |   | I   | V   | NQDC      |           |
| Contained in this form are not required to respond unless the form displays a currently valid OMB control number.    Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)   Title of Derivative Security (Instr. 3)   Price of Derivative Security   Security (Instr. 3)   Price of Derivative Security   Security   Security   Security   Securities      | Reminder:  | Report on a | separate line            | for each | n class of seco               | urities b  | eneficially   | y owr  | ned dir   |                    |  |        | _   |   |   |   |   |   |           |           |
| 1. Title of Derivative Security (Instr. 3)  Oute (Instr. 3)  Oute (Month/Day/Year)  Derivative Security (Instr. 3)  Derivative Securities (Instr. 3)  Derivative Security (Instr. 4)  Derivative Security Following Reported Transaction(s) (I) (Instr. 4)  Title of Date Exercisable Expiration Date  Title of Date Exercisable Expiration Title on Date  Title of Date Exercisable Expiration Title on Date  Number of Derivative Security Securities (Instr. 4)  Derivative Security Security Following Owned Security Following Or Indirect Transaction(s) (I) (Instr. 4)  Owned Security Following Number of Owned Se |  |             |                          |          |                               |  |   |        |   | - 0                | contain  | ed i   | n this  | form ar   | e not req   | uired to res  | spond unl   | ess   | EC 14     | 74 (9-02) |
| 1. Title of Derivative Security (Instr. 3)  Price of Derivative Security (Instr. 3)  Price of Derivative Security (Instr. 3)  Derivative Securities (Instr. 3)  Derivative Securities (A) or Disposed of (D) (Instr. 3, 4, and 5)  Derivative Securities (A) or Disposed of (D) (Instr. 3, 4, and 5)  Derivative Securities (Instr. 3)  Derivative Securities (Instr. 4)  Derivative Securities (Instr. 5) (Instr. 5) (Instr. 4)  Derivative Security (Instr. 5) (Instr. 4)  Derivative Security (Instr. 4)  Derivative Security (Instr. 4)  Derivative Securities (Instr. 5)  Derivative Securities (Instr. 5)  Derivative Securities (Instr. 4)  Derivative Securities (Instr. 5)  Derivative Securities (Instr. 5)  Derivative Securities (Instr. 4)  Derivative Securities (Instr. 5)  D |  |             |                          |          | Table II                      |  |   |        |   |                    | /  |        | /   |   | •   | l   |   |   |           |           |
| Date Expiration Date Title Number of   | Derivative Security (Instr. 3) Conversion Date (Mont Price of Derivative |             | Date                     |          | 3A. Deemed<br>Execution Dates |  | 4. Transaction Code   |        | 5. Number of Derivative Securities Acquired (A) or Disposed |                    | 6. Date Exercisable and Expiration Date (Month/Day/Year) Ur Se (In |        |   | Title and mount of inderlying occurities instr. 3 and | Derivative<br>Security  | Derivative<br>Securities<br>Beneficially<br>Owned<br>Following<br>Reported<br>Transaction(s | Own<br>Form<br>Deri<br>Secu<br>Dire<br>or In<br>(I) | n of<br>vative<br>rity:<br>ct (D)<br>direct | Beneficia |           |
| Code V (A) (D) Shares  |  |             |                          |          |                               |  |   | 4,     | , and 5   | 5)                 |  |        |   | ation Titl  | or<br>Number<br>of  |   |   |   |           |           |
| Reporting Owners   |  |             |                          |          |                               |  | Code  | v   (. | (A) (I  | (ט                 |  |        |   |   | Snares  |   |   |   |           |           |

Relationships

|   | Director | 10%<br>Owner | Officer                  | Other |
|---|----------|--------------|--------------------------|-------|
| Boor William C<br>200 PUBLIC SQUARE<br>SUITE 3300<br>CLEVELAND, OH 44114-2315 |          |              | SVP, Global Ferroalloys. |       |

## **Signatures**

| /s/ William C. Boor             | 06/16/2011 |
|---------------------------------|------------|
| **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).
- Balance shown reflects 24 and 26 shares acquired March 1, 2011 and June 1, 2011, respectively, pursuant to the dividend reinvestment feature of the Cliffs Natural Resources Inc. 2005 Voluntary Non-Qualified Deferred Compensation Plan ("VNQDC").
- (2) Held for the benefit of the Reporting Person by the VNQDC.

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

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.