

CLIFFS NATURAL RESOURCES INC.

Reported by
RIEDERER RICHARD K

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 01/03/07 for the Period Ending 01/02/07

| | |
|-------------|--|
| 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

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|---|---------|----------|--|--|--|--|--|--|
| 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) | | |
| RIEDERER RICHARD K | | | CLEVELAND CLIFFS INC [CLF] | | | <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner | | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (MM/DD/YYYY) | | | <input type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) | | |
| S25 W35020 MANOR HOUSE RD. | | | 1/2/2007 | | | | | |
| (Street) | | | 4. If Amendment, Date Original Filed (MM/DD/YYYY) | | | 6. Individual or Joint/Group Filing (Check Applicable Line) | | |
| OCONOMOWAC, WI 53066 | | | | | | <input checked="" type="checkbox"/> Form filed by One Reporting Person | | |
| (City) (State) (Zip) | | | | | | <input type="checkbox"/> 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. 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 | | | | | | | | 9910.417 ⁽¹⁾ | D | |

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 | Title | Amount or Number of Shares | | | | |
| Stock Units | ⁽²⁾ | 1/2/2007 | | A | | 77.4154 | | ⁽³⁾ | ⁽³⁾ | Common Shares | 77.4154 | \$48.44 | 4592.3842 ⁽⁴⁾ | D | |

Explanation of Responses:

- On November 14, 2006, Cleveland-Cliffs Inc ("Company") declared a dividend of \$.125 per share, payable to all holders of record as of November 24, 2006 of common stock payable on December 1, 2006. The amount shown reflects 2.2449 common unrestricted shares acquired pursuant to Cleveland-Cliffs Inc Dividend Reinvestment and Stock Purchase Plan. The amount also reflects 23.608 dividend reinvestment shares on restricted shares acquired pursuant to the Company's Nonemployee Directors' Compensation Plan ("Plan").
- Convertible into Common Shares on a 1-for-1 basis.
- Reflects number of Common Shares underlying deferred compensation credited to the account of the Reporting Person in payment of the Reporting Person's Required Retainer under the Plan. Each Stock Unit is generally distributable following termination of service as a Director.
- The total includes dividend reinvestment pursuant to the Nonemployee Directors' Compensation Plan (as Amended and Restated January 1, 2005) ("Plan"). The number of deferred dividend reinvestment equivalent shares earned in the Plan is calculated using the closing market price at the end of each quarter for shares held in the Plan. The reporting person was credited with 10.6848 dividend reinvestment shares on 12/29/2006.

Reporting Owners

| | |
|--|--|
| | |
|--|--|

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------|-------|
| | Director | 10% Owner | Officer | Other |
| RIEDERER RICHARD K S25 W35020 MANOR HOUSE RD. OCONOMOWAC, WI 53066 | X | | | |

Signatures

George W. Hawk, Jr. by Power of Attorney

1/3/2007

** 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.