

FORM 4

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

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| OMB APPROVAL | |
| OMB Number: | 3235-0287 |
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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 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

(Print or Type Responses)

| | | | | | |
|--|---------|--|---|---|--|
| 1. Name and Address of Reporting Person* BRINZO JOHN S | | 2. Issuer Name and Ticker or Trading Symbol CLEVELAND CLIFFS INC [CLF] | | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Chairman & CEO | |
| (Last) | (First) | (Middle) | 3. Date of Earliest Transaction (Month/Day/Year) 03/03/2006 | | |
| 1100 SUPERIOR AVENUE, 15TH FLOOR | | | | | |
| (Street) | | | 4. If Amendment, Date Original Filed(Month/Day/Year) | | |
| CLEVELAND, OH 44114 | | | | | 6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <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. 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 | 03/03/2006 | | A | (1) | 34,361 | A | \$ 86.05 | 110,551 | D | |
| Common Stock | 03/03/2006 | | F | (2) | 14,414 | D | \$ 86.05 | 96,137 | D | |
| Common Stock | 03/06/2006 | | S | (3) | 1,000 | D | \$ 87.501 | 95,137 | D | |
| Common Stock | | | | | | | | 71,869 | I | By VNQDC (4) |

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.

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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) | | 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 | | Date Exercisable | Expiration Date | Title | Amount or Number of Shares | | | | |
| Retention Units 2003-2005 | (5) | 03/03/2006 | | D | | 15,000 (6) | (7) | (7) | Common Shares | 15,000 | \$ 88.57 | 0 | D | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|----------------|-------|
| | Director | 10% Owner | Officer | Other |
| BRINZO JOHN S 1100 SUPERIOR AVENUE 15TH FLOOR CLEVELAND, OH 44114 | X | | Chairman & CEO | |

Signatures

George W. Hawk, Jr. by Power of Attorney

**Signature of Reporting Person

03/07/2006

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).

- (1) Reflects payout in Common Stock of Performance Shares earned under the Cleveland-Cliffs Inc 1992 Equity Plan (as Amended and Restated as of May 13, 1997) as amended, for the 2003-2005 Performance Period.
- (2) Surrender of Performance Shares represented in footnote (1) in payment of the related tax liability incurred by the reporting person.
- (3) Common shares sold pursuant to a 10b(5)-1 trading plan entered into August 25, 2005.
- (4) Held for the benefit of the Reporting Person by the Cleveland-Cliffs Inc Voluntary Non-Qualified Deferred Compensation Plan (VNQDC). The balance shown also includes 36 shares acquired March 1, 2006 (to shareholders of record on February 15, 2006) pursuant to the dividend reinvestment feature of the VNQDC.
- (5) Convertible into Common Shares on a 1-for-1 basis.
- (6) On December 31, 2004, the common stock of Cleveland-Cliffs Inc split 2-for-1, resulting in the reporting person's acquisition of 7,500 additional retention units.
- (7) Retention Units granted to Reporting Person under the Cleveland-Cliffs Inc Long-Term Incentive Program covering the period of January 1, 2003 to December 31, 2005 (Retention Period) were paid-out to Reporting Person in cash based on the market value price of the Common Shares of the Issuer on the last day of the Retention Period.

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

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