

CLIFFS NATURAL RESOURCES INC.

Reported by
BRINZO JOHN S

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 09/07/06 for the Period Ending 09/05/06

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 * BRINZO JOHN S <small>(Last) (First) (Middle)</small> 1100 SUPERIOR AVENUE, 15TH FLOOR <small>(Street)</small> CLEVELAND, OH 44114 <small>(City) (State) (Zip)</small>	2. Issuer Name and Ticker or Trading Symbol CLEVELAND CLIFFS INC [CLF] 3. Date of Earliest Transaction (MM/DD/YYYY) <p align="center">9/5/2006</p>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input checked="" type="checkbox"/> Director _____ 10% Owner _____ Officer (give title below) _____ Other (specify below)
4. If Amendment, Date Original Filed (MM/DD/YYYY)		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

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	9/5/2006		F (1)		42687	D	\$37.125	184846 (2)	D	
Common Stock	9/5/2006		S (3)		5000	D	\$38.3108	179846	D	
Common Stock								44136 (4)	I	By VNQDC (5)

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				

Explanation of Responses:

- (1) Surrender of shares in payment of tax liability incurred on September 5, 2006, the date of the Cleveland-Cliffs Inc Voluntary Non-Qualified Deferred Compensation Plan("VNQDC") distribution to the reporting person.
- (2) Balance reflects 99,817 shares distributed to the reporting person from the VNQDC on September 5, 2006.
- (3) Common shares sold pursuant to a 10b(5)-1 trading plan entered into August 25, 2005 and amended June 9, 2006.
- (4) Balance shown reflects 107 shares acquired September 1, 2006 pursuant to the dividend reinvestment feature of the VNQDC to shareholders of record as of August 15, 2006. The balance also reflects a distribution upon retirement of the reporting person of 99,817 shares from the VNQDC to direct ownership on September 5, 2006.
- (5) Held for the benefit of the Reporting Person by the VNQDC.

Reporting Owners

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

Signatures

George W. Hawk, Jr. by Power of Attorney

9/7/2006

** 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.