

CLIFFS NATURAL RESOURCES INC.

Reported by
CALFEE WILLIAM R

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 02/26/08 for the Period Ending 02/26/08

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)		
CALFEE WILLIAM R			CLEVELAND CLIFFS 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) Exec. V.P. Comm. N.Amer. Iron		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (MM/DD/YYYY)					
			2/26/2008					
1100 SUPERIOR AVENUE, 15TH FLOOR			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 <input type="checkbox"/> Form filed by More than One Reporting Person		
CLEVELAND, OH 44114								
(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	2/26/2008		A (1)		9388	A	\$119.76	39839	D	
Common Stock	2/26/2008		F (2)		3480	D	\$119.76	36359	D	
Common Stock								19900	I	By 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)
					(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Retention Units 2005-2007	(4)	2/26/2008		D		1230 (5)	(6)	(6)	Common Shares	1230	\$100.80	0	D	

Explanation of Responses:

- (1) Reflects a 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 ("1992 Equity Plan"), for the 2005-2007 Performance Period.
- (2) Surrender of shares in payment of tax liability incurred on December 31, 2007, the date of restricted stock vesting to the Reporting Person.
- (3) Held for the benefit of the Reporting Person by the Cleveland-Cliffs Inc Voluntary Non-Qualified Deferred Compensation Plan (VNQDC).
- (4) Each Retention Unit represents the value of one Common Share of the Company.

- (5) Total ownership of retention units reflects the 2-for-1 stock split on June 30, 2006, which resulted in the reporting person's receiving 615 additional retention units.
- (6) Retention Units granted to Reporting Person under the Cleveland-Cliffs Inc Long-Term Incentive Program covering the period of January 1, 2005 to December 31, 2007 (Retention Period). Retention units were paid out to the 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.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
CALFEE WILLIAM R 1100 SUPERIOR AVENUE 15TH FLOOR CLEVELAND, OH 44114			Exec. V.P. Comm. N.Amer. Iron	

Signatures

William R. Calfee

2/26/2008

** 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.

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