

CLIFFS NATURAL RESOURCES INC.

Reported by
CARRABBA JOSEPH A

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 09/01/06 for the Period Ending 09/01/06

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 *			2. Issuer Name and Ticker or Trading Symbol			5. Relationship of Reporting Person(s) to Issuer (Check all applicable)		
Carrabba Joseph A			CLEVELAND CLIFFS INC [CLF]			<input checked="" type="checkbox"/> Director _____ 10% Owner <input checked="" type="checkbox"/> Officer (give title below) _____ Other (specify below) Chief Executive Officer		
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (MM/DD/YYYY)					
			9/1/2006					
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)			

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				
Retention Units 2006-2008	(1)	9/1/2006		A		2490	(2)	(3)	(3)	Common Shares	2490	\$0.00	4980	(4)	D
Retention Units 2005-2007	(1)							(5)	(5)	Common Shares	1140		1140	(6)	D

Explanation of Responses:

- (1) Convertible into Common Shares on a 1-for-1 basis.
- (2) Represents a grant of additional Retention Units to the Reporting Person effective upon becoming Chief Executive Officer on September 1, 2006.
- (3) The retention units are issued under the Cleveland-Cliffs Inc ("Company") Long-Term Incentive Program ("LTI Program") covering the performance period January 1, 2006 through December 31, 2008 (Retention Period). Payment of the retention units will be made in cash after the completion of the Retention Period based upon the employment by the Company of the Reporting Person and the market value of a Common Share of the Company on the last day of the Retention Period.
- (4) Total of retention units reflect the 2-for-1 stock split on June 30, 2006, which resulted in the reporting person's receiving 1,245 additional retention units.
- (5) Retention units granted to Reporting Person under the Company's LTI Program covering the period of January 1, 2005 to December 31, 2007 (Retention Period). Retention units will be paid out to the Reporting Person in cash based upon the employment by the Company of the Reporting Person and the market value of a Common Share of the Company on the last day of the Retention Period.
- (6) Total of retention units reflect the 2-for-1 stock split on June 30, 2006, which resulted in the Reporting Person's receiving 570 additional

retention units.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Carrabba Joseph A 1100 SUPERIOR AVENUE 15TH FLOOR CLEVELAND, OH 44114	X		Chief Executive Officer	

Signatures

George W. Hawk, Jr. by Power of Attorney

9/1/2006

** 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.

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