

CLIFFS NATURAL RESOURCES INC.

Reported by
LEROUX ROBERT J

FORM 4

(Statement of Changes in Beneficial Ownership)

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

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

1. Name and Address of Reporting Person * LEROUX ROBERT J <small>(Last) (First) (Middle)</small> 1100 SUPERIOR AVENUE <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) 3/1/2007 4. If Amendment, Date Original Filed (MM/DD/YYYY)	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) Vice President & Controller 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
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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	3/1/2007		A (1)		2100	A	\$60.58	7810 (2)	I	By VNQDC (3)
Common Stock	3/1/2007		F (4)		2085	D	\$60.58	9262	D	
Common Stock	3/1/2007		A		6301 (5)	A	\$60.58	15563 (2)	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				
Retention Units 2004-2006	(6)	3/1/2007		D		1200	(7)	(7)	Common Shares	1200	\$48.44	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 2004-2006 Performance Period and deferred into the Reporting Person's Voluntary NonQualified Deferred Compensation Plan ("VNQDC").
- (2) Total adjusted to reflect a distribution of shares from the VNQDC in the amount of 2,533 shares on March 1, 2006 to direct ownership.
- (3) Held for the benefit of the Reporting Person by the Cleveland-Cliffs Inc VNQDC.
- (4) Surrender of Performance Shares represented in footnote (5) in payment of the related tax liability incurred by the reporting person.
- (5) Reflects a payout in Common Stock of Performance Shares earned under the 1992 Equity Plan for the 2004-2006 Performance Period.
- (6) Convertible into Common Shares on a 1-for-1 basis.

(7) Retention Units granted to Reporting Person under the Cleveland-Cliffs Inc Long-Term Incentive Program covering the period of January 1, 2004 to December 31, 2006 (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
LEROUX ROBERT J 1100 SUPERIOR AVENUE CLEVELAND, OH 44114			Vice President & Controller	

Signatures

Robert J. Leroux

3/2/2007

** 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.

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