

CLIFFS NATURAL RESOURCES INC.

Reported by
IRELAND JAMES D III

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 05/10/06 for the Period Ending 05/09/06

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

CLEVELAND CLIFFS INC

FORM 4

(Statement of Changes in Beneficial Ownership)

Filed 5/10/2006 For Period Ending 5/9/2006

Address	1100 SUPERIOR AVE 18TH FLR CLEVELAND, Ohio 44114
Telephone	216-694-5700
CIK	0000764065
Industry	Metal Mining
Sector	Basic Materials
Fiscal Year	12/31

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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 * IRELAND JAMES D III <small>(Last) (First) (Middle)</small> 1801 EAST 9TH STREET, SUITE 1700 <small>(Street)</small> CLEVELAND, OH 44114 <small>(City) (State) (Zip)</small>	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 _____ 10% Owner _____ Officer (give title below) _____ Other (specify below)
3. Date of Earliest Transaction (MM/DD/YYYY) <p align="center">5/9/2006</p>		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person _____ Form filed by More than One Reporting Person
4. If Amendment, Date Original Filed <small>(MM/DD/YYYY)</small>		

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security <small>(Instr. 3)</small>	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. Code <small>(Instr. 8)</small>		4. Securities Acquired (A) or Disposed of (D) <small>(Instr. 3, 4 and 5)</small>			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) <small>(Instr. 3 and 4)</small>	6. Ownership Form: Direct (D) or Indirect (I) <small>(Instr. 4)</small>	7. Nature of Indirect Beneficial Ownership <small>(Instr. 4)</small>
			Code	V	Amount	(A) or (D)	Price			
Common Stock	5/9/2006		A	(1)	327	A	\$99.38	7804	D	
Common Stock								90398	I	Co-Trustee (2)

Table II - Derivative Securities Beneficially Owned (e.g. , puts, calls, warrants, options, convertible securities)

1. Title of Derivate Security <small>(Instr. 3)</small>	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. Code <small>(Instr. 8)</small>		5. Number of Derivative Securities Acquired (A) or Disposed of (D) <small>(Instr. 3, 4 and 5)</small>		6. Date Exercisable and Expiration Date		7. Title and Amount of Securities Underlying Derivative Security <small>(Instr. 3 and 4)</small>		8. Price of Derivative Security <small>(Instr. 5)</small>	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (s) <small>(Instr. 4)</small>	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) <small>(Instr. 4)</small>	11. Nature of Indirect Beneficial Ownership <small>(Instr. 4)</small>
				Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Stock Units	(3)							(4)	(4)	Common Shares	5631.9106		5631.9115 (5)	D	

Explanation of Responses:

- (1) Reflects the number of Restricted Shares credited to the account of the Reporting Person on the Annual Meeting date, May 9, 2006 (Annual Equity Grant) pursuant to the Cleveland-Cliffs Inc Non-employee Directors' Compensation Plan (as Amended and Restated January 1, 2005)("Plan").
- (2) Shares are held in five trusts for the benefit of siblings and the Reporting Person who is a co-trustee of the trusts. The Reporting Person disclaims beneficial ownership of 66,973.50 of these shares. The Reporting Person has an interest in the income or corpus with respect to 23,424.50 shares.
- (3) Convertible into Common Shares on a 1-for-1 basis.
- (4) Reflects number of Common Shares of underlying deferred compensation credited to the account of the Reporting Person pursuant to the Plan. Each Stock Unit is generally distributable following termination of service as a Director.
- (5) The total includes dividend reinvestment pursuant to the Nonemployee Directors' Compensation Plan (as Amended and Restated January

1, 2005) ("Plan"). The number of deferred dividend reinvestment equivalent shares earned in the Plan is calculated using the closing market price at the end of each quarter for shares held in the Plan. The reporting person was credited with 12.8995 dividend reinvestment shares on 3/31/2006.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
IRELAND JAMES D III 1801 EAST 9TH STREET SUITE 1700 CLEVELAND, OH 44114	X			

Signatures

George W. Hawk, Jr. by Power of Attorney

5/10/2006

** 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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