

IRELAND JAMES D III
 Form 4
 December 27, 2006

FORM 4

**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(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person *
IRELAND JAMES D III

(Last) (First) (Middle)

1801 EAST 9TH STREET, SUITE 1700

(Street)

CLEVELAND, OH 44114

(City) (State) (Zip)

2. Issuer Name and Ticker or Trading Symbol
CLEVELAND CLIFFS INC [CLF]

3. Date of Earliest Transaction (Month/Day/Year)
 12/22/2006

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)

6. Individual or Joint/Group Filing(Check Applicable Line)

Form filed by One Reporting Person
 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. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction 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 Ownership (Instr. 4)
				(A) or (D) Code V Amount (D) Price			
Common Stock	12/22/2006		S	6,000 D \$ 46.3052	174,796 ⁽¹⁾	I	Co-Trustee ⁽²⁾
Common Stock					15,608 ⁽³⁾	D	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction 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 (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. P	
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Units	(4)					(5)	(5)	Common Shares	11,336.3993

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
Date: 12/27/2006

__Signature of Reporting Person

Date

Explanation of Responses:

- * 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).
- (1) On June 30, 2006, the common stock of Cleveland-Cliffs Inc split 2-for-1, resulting in the reporting person's acquisition of 90,398 additional shares.
- (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 127,947 of these shares. The Reporting Person has an interest in the income or corpus with respect to 46,849 shares.
- (3) On June 30, 2006, the common stock of Cleveland-Cliffs Inc split 2-for-1, resulting in the reporting person's acquisition of 7,804 additional shares.
- (4) Convertible into Common Shares on a 1-for-1 basis.
- (5) Reflects number of Common Shares underlying deferred compensation credited to the account of the Reporting Person under the Plan. Each Stock Unit is generally distributable following termination of service as a Director.
- (6) 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 ("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 17.7573

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Equivalent Shares on 6/30/2006. On June 30, 2006 at the close of market, the common stock of Cleveland-Cliffs Inc split 2-for-1, resulting in the reporting person's acquisition of 5,649.6688 additional shares. The reporting person was also credited with a further 37.0617 Equivalent Shares on 9/29/2006 pursuant to the Plan.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.