FORM	4
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Check this box if no
longer subject to
Section 16. Form 4 or
Form 5 obligations
may continue. See
Instruction 1(b).

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UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

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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 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)										
1. Name and Address of Reporting Person CALFEE WILLIAM R	2. Issuer Name an CLIFFS NATU			0.		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner				
(Last) (First) 1100 SUPERIOR AVENUE, 15TI	3. Date of Earliest 7 03/05/2009	Transaction	(Mor	th/Day/Y	ear)	X_Officer (give title below)Other (specify below) Exec, V.P. Comm. N.Amer. Iron				
(Street) CLEVELAND, OH 44114	4. If Amendment, Date Original Filed(Month/Day/Year)						6. Individual or Joint/Group Filing(Check Applicable Line) _X_Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City) (State)	(Zip)	Т	fable I - No	on-De	rivative S	Securiti	red, Disposed of, or Beneficially Owned			
1.Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)		(Instr. 8)		4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Reported Transaction(s)	6. Ownership Form: Direct (D)	Beneficial
		(Month/Day/Year)	Code	v	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock	03/05/2009		A <u>(1)</u>		19,890	А	\$ 15.43	52,612	D	
Common Stock	03/05/2009		F ⁽²⁾		6,354	D	\$ 15.43	46,258	D	
Common Stock								39,864	Ι	By VNQDC (3)

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number.

SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned

(e.g., puts, calls, warrants, options, convertible securities)															
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative	Date (Month/Day/Year)	Execution Date, if	Code	5. Number of Derivative Securities Acquired			6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Underlying Securities		Derivative Security (Instr. 5)	Securities Beneficially	Ownership Form of	11. Nature of Indirect Beneficial Ownership (Instr. 4)
	Security					(A) or Disposed of (D) (Instr. 3, 4, and 5)							Reported Transaction(s)	Direct (D) or Indirect (I) (Instr. 4)	
				Code	v	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Retention Units 2006- 2008	<u>(4)</u>	03/05/2009		D			2,340	(5)	<u>(5)</u>	Common Shares	2,340	\$ 25.61	0	D	

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

**Signature of Reporting Person

03/06/2009

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) Reflects 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 ("Plan"), for the 2006-2008 Performance Period.
- (2) Surrender of Performance Shares represented in footnote (1) in payment of the related tax liability incurred by the reporting person.
- (3) Held for the benefit of the Reporting Person by the Cliffs Natural Resources Inc. 2005 Voluntary Non-Qualified Deferred Compensation Plan (VNQDC).
- (4) Convertible into Common Shares on a 1-for-1 basis.
- Represents a payout of Retention Units to the Reporting Person under the Cleveland-Cliffs Inc Long-Term Incentive Program of the Plan covering the period January 1, 2006 through (5) December 31, 2008 (Incentive Period). Payment of the Retention Units was made in cash after the completion of the Incentive Period based upon the employment by the Company of the Reporting Person and the market value of a Common Share of the Company on December 31, 2008 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.