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).

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 BRAKE WILLIAM	2. Issuer Name an CLIFFS NATU			0.		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner					
(Last) (First) 200 PUBLIC SQUARE, SUITE 3	3. Date of Earliest T 03/03/2010	ransaction	(Mon	th/Day/Y	ear)	X_Officer (give title below)Other (specify below)Other (specify below) EVP, Human & Tech. Resources					
(Street) CLEVELAND, OH 44114-2315	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)	Table I - Non-Derivative Securities Acqu						ired, 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)			4. Securi (A) or D (Instr. 3, Amount	(A) or	of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	Ownership Form:	Beneficial Ownership	
Common Stock	03/03/2010		A ⁽¹⁾		25,500	()	\$ 53.6	37,850	D		
Common Stock	03/03/2010		F ⁽²⁾		9,871	D	\$ 53.6	27,979	D		
Common Stock								1	Ι	VNQDC (3)	

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

SEC 1474 (9-02)

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

 (e.g., puts calls warrants options convertible securities)

(e.g., puts, calls, warrants, options, convertible securities)															
1. Title of	2.	3. Transaction	3A. Deemed	4.			lumber	6. Date Exer	cisable	7. Title and	Amount	8. Price of		10.	11. Nature
Derivative	Conversion	Date	Execution Date, if	Transact	ion	of		and Expirati	on Date	of Underlyir	ıg	Derivative	Derivative	Ownership	of Indirect
Security	or Exercise	(Month/Day/Year)	any	Code		Der	ivative	(Month/Day	/Year)	Securities		Security	Securities	Form of	Beneficial
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8))	Sec	urities			(Instr. 3 and	4)	(Instr. 5)	Beneficially	Derivative	Ownership
	Derivative					Acc	uired						Owned	Security:	(Instr. 4)
	Security					(A)	or						Following	Direct (D)	
						Dis	posed						Reported	or Indirect	
						of (/						Transaction(s)	< / <	
							tr. 3, 4,						(Instr. 4)	(Instr. 4)	
						and	5)								
											Amount				
								Date	Evaluation		or				
								Exercisable	Expiration	Title	Number				
								Exercisable	Date		of				
				Code	V	(A)	(D)				Shares				
Retention															
Units										Common	2 000				
	<u>(4)</u>	03/03/2010		D			3,000	<u>(5)</u>	<u>(5)</u>	Common	-	\$ 46.09	0	D	
2007-							,			Shares	<u>(6)</u>				
2009															
/ -								1							

Reporting Owners

	Relationships						
Reporting Owner Name / Address	Director	10% Owner	Officer	Other			
BRAKE WILLIAM 200 PUBLIC SQUARE SUITE 3300 CLEVELAND, OH 44114-2315			EVP, Human & Tech. Resources				

Signatures

Traci L. Forrester by Power of Attorney	03/03/2010
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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 a payout in Common Stock of Performance Shares earned under the 2007 Cleveland-Cliffs Inc. Incentive Equity Plan (as Amended December 31, 2008) (Equity Plan) for the 2007-2009 Performance Period.
- (2) Surrender of Performance Shares represented 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.
- (5) Represents a payout of retention units to the Reporting Person under the 2007 Equity Plan covering the period of January 1, 2007 to December 31, 2009 (Retention Period). Retention units are 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.
- (6) Since the date of grant, the common stock of the Company split 2-for-1 on May 15, 2008 resulting in the reporting person receiving an additional 1,500 Retention Units.

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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