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

OMB APPROVAL OMB Number: 3235-0287 Estimated average burden hours per response... 0.5

#### 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

1. Name and Addres Smith Clifford T	2. Issuer Name ar CLIFFS NATU [CLF]					5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director10% Owner XOfficer (give title below)Other (specify below)					
200 PUBLIC SQ	3. Date of Earliest 7 03/08/2011	Transactior	n (Mo	onth/Day/	Year)	SVP, Global Busin	ness Dev.				
CLEVELAND, (	4. If Amendment, I	Date Origin	al Fil	ed(Month/I	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 Acquired, Disposed of, or Beneficially Owned								
1.Title of Security (Instr. 3)			2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Instr. 8)	tion				5. Amount of Securities Beneficially Owned Following Reported Transaction(s)	Ownership Form: 0f Ind Benef	Beneficial
				Code	V	Amount	(A) or (D)	Price	(Instr. 3 and 4)	Direct (D) C or Indirect (I (I) (Instr. 4)	Ownership (Instr. 4)
Common Stock		03/08/2011		A <sup>(1)</sup>		1,190	А	\$ 0	10,841	D	
Common Stock									12,591	Ι	by VNQDO (2)

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)															
1. Title of			3A. Deemed	4.		5.		6. Date Exer		7. Tit			9. Number of		11. Nature
Derivative	Conversion	Date	Execution Date, if	Transactio	on	Number and Expiration Date A		Amount of Derivative		Derivative	Ownership	of Indirect			
Security	or Exercise	(Month/Day/Year)	any	Code		of (Month/Day/Year) U		Underlying Security		Securities	Form of	Beneficial			
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8)		Deriv	· · · · · · · · · · · · · · · · · · ·		Securities (Instr. 5)		Beneficially	Derivative	Ownership		
	Derivative					Secur	Securities (		(Instr. 3 and		Owned	Security:	(Instr. 4)		
	Security					Acqu	ired			4)			Following	Direct (D)	
						(A) or					Reported	or Indirect			
						Disposed							Transaction(s)	(I)	
						of (D)							(Instr. 4)	(Instr. 4)	
						(Instr. 3,									
						4, and 5)									
											Amount				
								Date	Expiration		or				
								Exercisable		Title	Number				
								Excicisable	Dute		of				
				Code	V	(A)	(D)				Shares				

## **Reporting Owners**

	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
Smith Clifford T 200 PUBLIC SQUARE SUITE 3300 CLEVELAND, OH 44114			SVP, Global Business Dev.						

03/10/2011

# Signatures

/s/ Gina K. Gunning by Power of Attorney

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 the number of restricted share units granted to the Reporting Person on March 8, 2011 for the Performance Period 2011 to 2013 from the Issuer's Amended and Restated Cliffs 2007 Incentive Equity Plan.
- (2) Held for the benefit of the Reporting Person by the Cliffs Natural Resources Inc. 2005 Voluntary Non-Qualified Deferred Compensation Plan (VNQDC).

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.