FORM 4

(Print or Type Responses)

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

CALFEE WILLIAM R	CLIFFS NATURAL RESOURCES INC. [CLF]							(Check all applicable) Director X Officer (give title below) Exec. V.P. Comm. N.Amer. Iron				
(Last) (First) 1100 SUPERIOR AVENU	(Middle) E, 15TH FLOOR	3. Date of Earliest 12/08/2009	Transactio	n (M	onth/Day/	Year)			Exec. V.I	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)	Та	ivative S	ecuritie	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)	(Instr. 8)		4. Securit (A) or Di (Instr. 3,		of (D)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)		Following	6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership
			Code	V	Amount	(A) or (D)	Price	Ì	ŕ		or Indirect (I) (Instr. 4)	(Instr. 4)
Common Stock	12/08/2009		S		400	D	\$ 40.72	50,808			D	
Common Stock	12/08/2009		S		2,146	D	\$ 40.7	48,662			D	
Common Stock	12/08/2009		S		400	D	\$ 40.68	48,262			D	
Common Stock	12/08/2009		S		400	D	\$ 40.67	47,862			D	
Common Stock	12/08/2009		S		200	D	\$ 40.66	47,662			D	
Common Stock	12/08/2009		S		1,000	D	\$ 40.65	46,662			D	
Common Stock	12/08/2009		S		4,100	D	\$ 40.64	42,562			D	
Common Stock	12/08/2009		S		500	D	\$ 40.63	42,062			D	
Common Stock	12/08/2009		S		854	D	\$ 40.62	41,208			D	
Common Stock								39,968	(1)		I	By VNQDC (2)
Reminder: Report on a separate li	ne for each class of secu	rities beneficially ov	vned direct	ly or	indirectly							
				cont	ained in	this fo	orm are	not requ		ormation spond unleading troining troi	ss	1474 (9-02)
		Derivative Securiti (e.g., puts, calls, wa						ly Owned				
1. Title of Derivative Security (Instr. 3) 2. Conversion Date or Exercise Price of Derivative Security 3. Trans Date (Month/	action 3A. Deemed Execution Day/Year) any	4. Transaction Code Year) (Instr. 8)	5.	6. D and	ate Exerci Expiration nth/Day/Y	isable 1 Date	7. Ti Amo Undo Secu	itle and bunt of erlying urities r. 3 and		9. Number Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owners Form of Derivati Security Direct (or Indire	Beneficia Ownershi (Instr. 4)

					Date Exercisable	Expiration Date	Title	Amount or Number of Shares		
	Code	V	(A)	(D)				Shares		

Reporting Owners

P (0 N /	Relationships								
Reporting Owner Name / Address	Director	10% Owner	Officer	Other					
CALFEE WILLIAM R 1100 SUPERIOR AVENUE 15TH FLOOR CLEVELAND, OH 44114			Exec. V.P. Comm. N.Amer. Iron						

Signatures

George W. Hawk, Jr. 1	12/08/2009	
**Signature of Re	porting 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).
- Balance shown reflects 12, 14 and 16 shares acquired June 1, September 1, and December 1, 2009, respectively, pursuant to the dividend reinvestment feature of the Cliffs

 (1) Natural Resources Inc. 2005 Valuation, Nan Opplified Deferred Componentian Plan (IVN)OPCII) to show helden a forecast as a few and 22. Assert 14, and Navardan 20.
- (1) Natural Resources Inc. 2005 Voluntary Non-Qualified Deferred Compensation Plan ("VNQDC") to shareholders of record as of May 22, August 14, and November 20, 2009, respectively.
- (2) Held for the benefit of the Reporting Person by the 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.