## FORM 4

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

OMB APPROVAL
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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).

#### 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 Ty	pe Response	s)																
1. Name and Address of Reporting Person* CALFEE WILLIAM R				CLI	2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF]								5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director X Officer (give title below)  Exec. V.P. Comm. N.Amer. Iron					
(Last) (First) (Middle) 1100 SUPERIOR AVENUE, 15TH FLOOR					3. Date of Earliest Transaction (Month/Day/Year) 11/11/2010								Exec. V.I	P. Comm. N.	Amer.	iron		
CI EVEL	AND, OH	(Street)		4. If	Amendment	, Date	Origi	nal l	Filed(Mont	h/Day/Ye	ear)		X_ Form file	ed by One Repo	Group Filing orting Person One Reporting		pplicable l	Line)
(City		(State)	(Zip)		Т	able I	- Nor	ı-De	erivative	Securi	ties Ac	quir	ed, Dispo	osed of, or I	Beneficially	Owned		
1.Title of Security (Instr. 3)  2. Transaction Date (Month/Day/Year		Execu			Code (Instr. 8)		4. Securities Acquired (A or Disposed of (D) (Instr. 3, 4 and 5)			` ´	Beneficially Owned Following Reported Transaction(s)			Ownership of Form:		Beneficial		
				(Mont	(Month/Day/Year)		le	V	Amount	(A) or (D)	Pric		(Instr. 3	Instr. 3 and 4)		Direct or Indi (I) (Instr.	rect (I	wnership nstr. 4)
Common	Stock		11/11/2010			S			7,500	D	\$ 70.12	267	35,688			D		
Common	Stock												40,023	(1)		I	B V (2	NQDC
Reminder:	Report on a s	separate line	for each class of sec	urities b	oeneficially (	owned (		Per cor	rsons wl ntained i	no res	form a	are r	not requ		ormation spond unle	SS	SEC 14	74 (9-02)
			Table II		ative Securi				-	-			Owned					
Security	2. Conversion or Exercise Price of Derivative Security		Execution Dany	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		5.		6. Date Exercisable and Expiration Date (Month/Day/Year)  (Month/Day/Year)  Output  Date Exercisable Arr  Arr  University Sectors  Sectors  Sectors  Arr  Output  Sectors  Sectors  Arr  Output  Sectors  Sectors  Arr  Output  Sectors  Sectors  Arr  Output  Sectors  Sectors			Titl Amou Inder Securi Instr.	. 3 and		9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ow For Der Sec Dir or l	rnership m of rivative curity: ect (D) indirect str. 4)	Beneficial Ownershij (Instr. 4)	
					Code V	(A)	(D)	Da Ex	ite ercisable	Expira Date	ntion T	itle	Amount or Number of Shares					
Repor	ting O	wners																

D (1 0 V /	Relationships							
Reporting Owner Name / Address	Director	ector 10% Owner Officer						
CALFEE WILLIAM R 1100 SUPERIOR AVENUE 15TH FLOOR CLEVELAND, OH 44114			Exec. V.P. Comm. N.Amer. Iron					

## **Signatures**

Traci L. Forrester by Power of Attorney	11/12/2010

**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) Balance shown reflects 19 shares acquired September 1, 2010 pursuant to the dividend reinvestment feature of the Cliffs Natural Resources Inc. 2005 Voluntary Non-Qualified Deferred Compensation Plan ("VNQDC") to shareholders of record as of August 13, 2010.
- (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.