FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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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 Typ	e Responses))																
1. Name and Address of Reporting Person * Carrabba Joseph A				2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF]									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) _X_ Director X_ Officer (give title below)					
(Last) (First) (Middle) 200 PUBLIC SQUARE, SUITE 3300				3. Date of Earliest Transaction (Month/Day/Year) 03/02/2010														
(Street) CLEVELAND, OH 44114-2315				4. If Amendment, Date Original Filed(Month/Day/Year)							/Year)		6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person Form filed by More than One Reporting Person					
(City)		(State)	(Zip)			7	Γable I - N	on-D	erivati	ve S	Securiti	es Acquir	ed, Disposed	l of, or Ben	eficially Ow	ned		
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Yea			Date (Month/Day/Year)			(Instr. 8)		(A) or Disposed of (of (D)				Ownership Form:	Beneficial		
				(Month/Day/Year)		Code	V	Amou	(A) or		+)		Direct (D) or Indirect (I) (Instr. 4)	Ownersh (Instr. 4)				
Common Stock		03/02/2010			A ⁽¹⁾		4,24	6	A	\$ 58.65	6,401			I	VNQD	C		
Common Stock		03/03/2010				A ⁽³⁾		94,3	50	A	\$ 53.6	239,486		D				
Common Stock 03/03/2010			03/03/2010			F ⁽⁴⁾		38,6	70	D	\$ 53.6	200,816		D				
Reminder: R	Report on a se	eparate line for each	r class of securities b	Derivativo	e Seci	uriti		Pers cont form	sons w tained n displ	in t lays l of,	this for a cur	rm are no rently va	e collection ot required lid OMB co	to respon	d unless th		1474 (9-0	02)
1. Title of	2.	3. Transaction	3A. Deemed	4.		5. N	umber	6. Da	te Exer	cisa	ble	1 /	and Amount	8. Price of	9. Number	of 10.	11. N	Natur
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	e (Month/Day/Year)		Code (Instr. 8)		Seco Acq or E of (1	urities uired (A) Disposed D) tr. 3, 4,	(Month/Day/Year)		of Under Securitie (Instr. 3	s	Security (Instr. 5)	()	Form of Deriva Securit Direct or India	f Bene Own (Instruction (D) Peet	(Instr. 4)		
				Code	V	(A)		Date Exerc	cisable		piration te	Title	Amount or Number of Shares		(Instr. 4)	(Instr.	1)	
Retention Units 2007- 2009	(5)	03/03/2010		D			11,100	١	<u>(6)</u>		(6)	Commo Share	111100	\$ 46.09	0	D		

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Carrabba Joseph A 200 PUBLIC SQUARE SUITE 3300 CLEVELAND, OH 44114-2315	X		Chairman, Pres. & CEO					

Signatures

Traci L. Forrester by Power of Attorney	03/04/2010		
**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).
- The amount represents an exchange of all or a portion of the Reporting Person's cash bonus for 3,397 shares of Cliffs Natural Resources Inc. (Company) Common Shares on a deferred (1) basis (Exchange Shares) under the Company's 2005 Voluntary Nonqualified Deferred Compensation Plan (VNQDC). An additional 849 deferred shares (Match Shares) were credited to the account of the Reporting Person in the VNQDC equal to 25 percent of the market value of the Exchanged Shares on the deferral date of the bonus payment.
- (2) Held for the benefit of the Reporting Person by the VNQDC.
- (3) 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.
- (4) Surrender of Performance Shares represented in payment of the related tax liability incurred by the reporting person.
- (5) Convertible into Common Shares on a 1-for-1 basis.
- (6) 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.

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.