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)														
Name and Address of Reporting Person* Eldridge Barry J					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 10% Owner Officer (give title below) Other (specify below)					
(Last) (First) (Middle) 200 PUBLIC SQUARE, STE. 3300					3. Date of Earliest Transaction (Month/Day/Year) 05/11/2010											
(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 PersonForm filed by More than One Reporting Person						
(City	· · · · · ·	(State)	(Zip)		Table I - Non-Derivative Securities Acqu					lired, 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)	f Cod (Ins	Code (Instr. 8)		ion 4. Securities Acquir (A) or Disposed of (Instr. 3, 4 and 5)		of (D)	Beneficia Reported	nt of Securities ally Owned Following Transaction(s)		6. Ownership Form:	Beneficial		
				(Month/D	1y/ 1 ea		ode	V	Amoun	(A) or t (D)	Price	(Instr. 3 and 4)			Direct (D) or Indirect (I) (Instr. 4)	Ownership (Instr. 4)
Common	Stock		05/11/2010			A	(1)		1,321		\$ 56.79	14,230.	4415		D	
							equire	cont the f	tained i form dis	n this fo splays a of, or Ber	orm ar curre	re not requently valid	OMB con	ormation spond unle trol numbe	ss	1474 (9-02)
	1			(e.g., puts,	calls, v		ts, op							· .		
Security	2. Conversion or Exercise Price of Derivative Security		Year) Execution Da	4. Transaction Code Year) (Instr. 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)		and Expiration Date (Month/Day/Year)		An Un Sec	Fitle and nount of derlying curities str. 3 and	8. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s (Instr. 4)	Ownersh Form of Derivativ Security: Direct (D or Indirect	Beneficia Ownersh (Instr. 4)	
				Code	de V	(A)	(D)	Date	e rcisable	Expiration Date	on Tit	Amount or Number of Shares				

Reporting Owners

D 41 O N	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Eldridge Barry J 200 PUBLIC SQUARE STE. 3300 CLEVELAND, OH 44114	X					

Signatures

Traci L. Forrester by Power of Attorney	05/13/2010
**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) Reflects the number of Restricted Shares credited to the account of the Reporting Person on the Annual Meeting date, May 11, 2010 (Annual Equity Grant) pursuant to the Cliffs Natural Resources Inc. Non-employee Directors' Compensation Plan (as Amended and Restated December 31, 2008).

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.