# 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

Name and Address of Reporting Person*  PHILLIPS ROGER				2. Issuer Name <b>and</b> Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC.  [CLF]						_X_ Direc	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  _X_Director Officer (give title below) Other (specify below)					
(Last) (First) (Middle) ARMOUR ROAD				3. Date of Earliest Transaction (Month/Day/Year) 05/11/2010								- (8	,	()		
(Street) REGINA, A9 S4P 3C7				4. If Amendment, Date Original Filed(Month/Day/Year)						_X_ Form fi	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 Acqu						quired, Disp	ired, Disposed of, or Beneficially Owned				
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	any	Execution Date, if		Code (Instr. 8)		tion 4. Securities Acqui (A) or Disposed of (Instr. 3, 4 and 5)		of (D	D) Beneficia	nt of Securities ally Owned Following Transaction(s) and 4)		6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership	
				` •	ĺ	Со	de	V	Amount	(A) or (D)	A) or				or Indirect (I) (Instr. 4)	(Instr. 4)
Common	Stock		05/11/2010			A	<u>(1)</u>		1,321	A	\$ 56.7	38,734.	4616		D	
				Derivative Sec			quire	cont the f	tained in form dis isposed o	n this fo splays a of, or Be	orm a a cur enefic	•	uired to res d OMB con	spond unle	ss	1474 (9-02)
Security	2. Conversion or Exercise Price of Derivative Security		Year) Execution D	4. Transaction Code Year) (Instr. 8)		5.		and Expiration Date (Month/Day/Year)		7 A U S (I 4)	Title and Amount of Underlying Securities Instr. 3 and	Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form of Derivativ Security: Direct (D or Indirect	Beneficial Ownersh (Instr. 4)  Beneficial Ownersh (Instr. 4)	
				Code	v	(A)	(D)			Date	Т	Citle Number of Shares				

#### **Reporting Owners**

D ( O N (	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
PHILLIPS ROGER ARMOUR ROAD REGINA, A9 S4P 3C7	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).
- Reflects the number of Common Shares credited to the account of the Reporting Person on the Annual Meeting of Shareholders date, May 11, 2010 (Annual Equity Grant), (1) issued pursuant to the Cliffs Natural Resources Inc. Non-Employee Directors' Compensation Plan (as Amended and Restated December 31, 2008). Directors >69 years of
- age receive common shares without restriction.

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.