FORM 4

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

OMB APPROVAL
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hours per response... 0.5

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

sponses)															
1. Name and Address of Reporting Person* Paradie Terrance M			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 10% Owner Other (specify below)					
(Last) (First) (Middle) 200 PUBLIC SQUARE, SUITE 3300			3. Date of Earliest Transaction (Month/Day/Year) 02/23/2011							SVP-C	Corp.Control	er/CAO			
	(Street)		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						
O, OH												ed by More than	one reporting	Cison	
	(State)	(Zip)		T	able I	- Nor	ı-Der	ivative S	Securities	Acqu	ired, Disp	osed of, or l	Beneficially	Owned	
1.Title of Security (Instr. 3) 2. Transaction Date (Month/Day/Ye		Date	any		f Code (Instr. 8)		ction	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)			Reported Transaction(s)			Ownership or Form:	Beneficial
			(Month/Day/Year)		ode	V	Amoun	(A) or (D)	Price	(Instr. 3 and 4)				Ownership (Instr. 4)	
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ck		02/23/2011			F	(2)		1,527	111		6,623			D	
ek											5,538 (3	3)		I	VNQDC
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ersion	Date	Execution Date, if any		Transaction Number Of		and Expiration Date (Month/Day/Year) An Un Sec		Amo Und Secu (Ins	ount of derlying urities tr. 3 and Derivative (Instr. 5)		Derivative Securities Beneficially Owned Following Reported	Owners Form o Derivat Security Direct (or Indir	hip of Indired Beneficia Ownersh (Instr. 4)		
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Transaction Date (Month/Day/Year) 3. Transaction Code (Instr. 3, 4 and 5) (A) or Disposed of (D) Price (A) or Original Filed(Month/Day/Year) 4. Securities Acquired (A) or Disposed of (D) Price (A) or Disposed of (D) Price (A) or Original Filed(Month/Day/Year) 5. Code V Amount (D) Price (D) Price (A) or Disposed of (D) Price (B) Persons who respond to contained in this form are the form displays a curred (A) or Disposed of (D) (Instr. 3) 6. Code V Amount (D) Price (D) Persons who respond to contained in this form are the form displays a curred (A) or Disposed of (D) (Instr. 3) 7. Table II - Derivative Securities Acquired, Disposed of, or Beneficial (Month/Day/Year) (Instr. 8) 8. Code V Amount (D) Persons who respond to contained in this form are the form displays a curred (A) or Disposed of (D) (Instr. 3) 8. Code V D Amount (D) Persons who respond to contained in this form are the form displays a curred (A) or Disposed of (D) (Instr. 3) 8. 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Individual or Joint/Group Filing X Form filed by One Reporting Person SVP-Cop.Controll SVP-Cop.Controll A Individual or Joint/Group Filing A Officer (give title below) SVP-Cop. Controll SVP-Cop. Controll A Individual or Joint/Group Filing X Form filed by One Reporting Person A Officer (give title below) SVP-Cop. Controll A Individual or Joint/Group Filing X Form filed by One Reporting Person A Officer (give title below) SVP-Cop. Controll A Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) 5. Amount of Securities Beneficially Owned Following Reported Reported Reported Reported Reported Reported Owned (A) or Beneficially Owned (A) or Disposed Ord (B) (Instr. 3) A and 5) 5. Amount of Securities Beneficially Owned following Reported Reported Ord (Instr. 3) A not separate line for each class of securities beneficially owned directly or indirectly. Table II - Derivative Securities Acquired (A) or Disposed of, or Beneficially Owned (Cg., puts, calls, warrants, options, convertible securities) Sumber Code (Instr. 3) A and 5) 5. Amount of Securities Beneficially Owned (Cg., puts, calls, warrants, options, convertible securities (Instr. 3) A (Instr. 4) 5. Amount of Securities Beneficially Owned (Code) A (Instr. 4) 5. Amount of Securities Beneficially Owned (Code) A (Instr. 3) A (Instr. 4) 5. Amount of Securities Beneficially Owned (Code) A (Instr. 4) 5. Amount of Securities Beneficially Owned (Code) A (Instr. 3) A (Instr. 4) 5. Amount of Securities Beneficially Owned (Code) A (Instr. 4) 5. Amount of Securities Beneficially 5. Amount of Securities Beneficially Owned (Code) A (Instr. 3)	2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF] 3. Date of Earliest Transaction (Month/Day/Year) 3. Date of Earliest Transaction (Month/Day/Year) 3. Date of Earliest Transaction (Month/Day/Year) 4. 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Reporting Owners

	Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Paradie Terrance M 200 PUBLIC SQUARE SUITE 3300 CLEVELAND, OH 44114-2315			SVP-Corp.Controller/CAO			

Signatures

/s/ Keirsten Riedel by Power of Attorney	02/23/2011

**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 a payout of performance shares for the 2008-2010 performance period earned under the Issuer's 2007 Incentive Equity Plan.
- (2) Reflects the surrender of 1,222 performance shares and 305 restricted share units from the 2008-2010 performance period in payment of the related tax liability incurred by the Reporting Person as a result of the award.
- (3) Balance shown reflects 15, 11, and 11 shares acquired June 1, 2010, September 1, 2010, and December 1, 2010, respectively, pursuant to the dividend reinvestment feature of the Issuer's 2005 Voluntary Non-Qualified Deferred Compensation Plan ("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.

KNOW ALL MEN BY THESE PRESENTS, that the undersigned hereby constitutes and appoints James D. Graham, Traci L. Forrester, Nancy Watts and Keirsten Riedel and each of them, as the true and lawful attorney or attorneys-in-fact, with full power of substitution and revocation, for the undersigned and in the name, place and stead of the undersigned, in any and all capacities, to execute, on behalf of the undersigned, any and all statements or reports considered necessary or advisable under Section 16(a) of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, as amended from time to time ("Exchange Act") with respect to the beneficial ownership of shares of Common Stock, par value \$.125 per share, of Cliffs Natural Resources Inc. ("Company"), including, without limitation, all initial statements of beneficial ownership on Form 3; all statements of changes in beneficial ownership on Form 4; all annual statements of beneficial ownership on Form 5; and all notices of proposed sale of securities on Form 144; and any and all other documents that may be required, from time to time, to be filed with the Securities and Exchange Commission, to execute any and all amendments or supplements to any such statements or forms, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting to said attorney or attorneys-in-fact, and each of them, full power and authority to do so and perform each and every act and thing requisite and necessary to be done in and about the premises, as fully to all intents and purposes as the undersigned might or could do in person, hereby ratifying and confirming all that said attorney or attorneys-in-fact or any of them or their substitutes, may lawfully do or cause to be done by virtue hereof.

The undersigned acknowledges that neither the Company nor such attorney-in-fact assumes (i) any liability for the undersigned's responsibility to comply with the requirement of the Exchange Act, (ii) any liability of the undersigned for any failure to comply with such requirements, or (iii) any obligation or liability of the undersigned for profit disgorgement under Section 16(b) of the Exchange Act. This Power of Attorney does not relieve the undersigned from responsibility for compliance with the undersigned's obligations under the Exchange Act, including without limitation the reporting requirements under Section 16 of the Exchange Act.

This Power of Attorney shall remain in full force and effect as long as the undersigned is subject to the reporting requirements of Section 16 with respect to the undersigned's holdings and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 13th day of July, 2010.

/s/ Terrance M. Paradie Terrance M. Paradie Officer