FORM 4

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

OMB APPROVAL
OMB Number: 3235-0287
Estimated average burden
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

	pe Response	·,								-					
Name and Address of Reporting Person* Kirsch James F				2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF]						5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
1000 LA	KESIDE A	(First) AVENUE	(Middle)	3. Date of 04/01/20		t Transa	ction (N	Month/Day	y/Year)						
(Street) CLEVELAND, OH 44114				4. If Amer	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 Acquired, Disposed of, or Beneficially Owned											
1.Title of Security (Instr. 3)		2. Transaction Date (Month/Day/Year)	any	xecution Date, if		(Instr. 8)		(A) or Disposed of (D (Instr. 3, 4 and 5)		Beneficia	ant of Securities ally Owned Following Transaction(s)		6. Ownership Form: Direct (D)	7. Nature of Indirect Beneficial Ownership	
				(France 2 a)	,, 1 0 11)	Code	e V	Amoun	(A) or (D)	Price	or Ii		or Indirect	(Instr. 4)	
Common	Stock		04/01/2010			A(1	1	69.108	5 D	3 72.35	179.409	97		D	
			Table II -	· Derivative			cor the uired, l	ntained in form dis	n this forr splays a c of, or Bene	m are curren	not requ itly valid	ction of inf iired to res OMB cont	pond unle	ss	1474 (9-02)
1. Title of Derivative			Execution D any	4. ate, if Transaction Code (Instr. 8)		, option	and Expiration Date (Month/Day/Year)			Amount or le Number			Ownersh Form of Derivativ Security: Direct (D or Indirect		
Security	or Exercise Price of Derivative Security		/Year) any	ate, if Trans	,	5. Numbe of Derival Securit Acquir (A) or Dispos of (D) (Instr. 24, and 25)	er and (M	Date Exer d Expiration onth/Day/	cisable on Date /Year)	7. Tit Amor Unde Secur	unt of erlying rities r. 3 and	8. Price of Derivative Security (Instr. 5)	9. Number Derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownersl Form of Derivati Security Direct (I or Indirect)	Beneficia Ownersh (Instr. 4)

Reporting Owners

D (O N (Relationships					
Reporting Owner Name / Address	Director	10% Owner	Officer	Other		
Kirsch James F 1000 LAKESIDE AVENUE CLEVELAND, OH 44114	X					

Signatures

Traci L. Forrester by Power of Attorney	04/05/2010
**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 number of Common Shares credited to the account of the Reporting Person in payment of the Reporting Person's Required Quarterly Retainer for the second quarter (1) of 2010 under the Cliffs Natural Resources Inc. Nonemployee Directors Compensation Plan("Plan"). Full shares earned pursuant to the Plan in 2010 will be issued effective January 2, 2011.

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.