

Kirsch James F
 Form 4
 May 19, 2011

FORM 4

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

OMB APPROVAL

OMB Number: 3235-0287
 Expires: January 31, 2005
 Estimated average burden hours per response... 0.5

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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. 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)

(Last) (First) (Middle)
 1000 LAKESIDE AVENUE
 (Street)
 CLEVELAND, OH 44114
 (City) (State) (Zip)

3. Date of Earliest Transaction (Month/Day/Year)
 05/17/2011
 4. If Amendment, Date Original Filed (Month/Day/Year)

Director 10% Owner
 Officer (give title below) Other (specify below)
 6. Individual or Joint/Group Filing (Check Applicable Line)
 Form filed by One Reporting Person
 Form filed by More than One Reporting Person

Table I - Non-Derivative Securities Acquired, 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)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Ownership (Instr. 4)
				(A) or (D)	Price		
				Code	V	Amount	

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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SEC 1474 (9-02)

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security	2. Conversion or Exercise	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any	4. Transaction Code	5. Number of Derivative Securities	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Underlying Securities
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(Instr. 3)	Price of Derivative Security	(Month/Day/Year)	(Instr. 8)	Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)	(Instr. 3, 4, and 5)
			Code	V	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Stock Units	(1)	05/17/2011	A	(2)	10.202		(2)	(2)	Common Shares	(2) \$ 9
Stock Units	(1)	05/17/2011	A	(3)	925		(3)	(3)	Common Shares	(3) \$

Reporting Owners

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

Signatures

/s/ Gina K. Gunning by Power of Attorney
 Date: 05/19/2011

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) Convertible into Common Shares on a 1-for-1 basis.

(2) Reflects number of Common Shares of underlying deferred compensation credited to the account of the Reporting Person in payment of the Reporting Person's required quarterly retainer for the second quarter under the Cliffs Natural Resources Inc. Nonemployee Directors' Compensation Plan (the "Plan")(which was retroactively increased on May 17, 2011). Each Stock Unit is generally distributable following termination of service as a Director.

(3) Reflects the number of Common Shares credited to the account of the Reporting Person as the Annual Equity Grant on May 17, 2011, the date of the Annual Meeting of Shareholders ("Annual Equity Grant"). The Reporting Person elected to defer the Annual Equity Grant acquired pursuant to the Plan. Each Stock Unit is generally distributable following termination of service as a Director.

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.