

Mehan Richard R.
Form 4
March 10, 2010

FORM 4

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

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,
Section 17(a) of the Public Utility Holding Company Act of 1935 or Section
30(h) of the Investment Company Act of 1940

OMB APPROVAL

OMB
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(Print or Type Responses)

1. Name and Address of Reporting Person *
Mehan Richard R.

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)

3. Date of Earliest Transaction
(Month/Day/Year)

03/08/2010

____ Director ____ 10% Owner
X Officer (give title ____ Other (specify
below) below)

SVP, Pres. & CEO Cliffs Asia-P

LEVEL 12, THE QUADRANT, 1
WILLIAM STREET

(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

PERTH, C3 6000

(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)	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 Following 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)			
				Code V Amount (D) Price			
Common Stock					18,604	D	

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

**Persons who respond to the collection of
information contained in this form are not
required to respond unless the form
displays a currently valid OMB control
number.**

SEC 1474
(9-02)

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

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1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. P Der Secr (Ins
				Code V (A) (D)		Date Exercisable Expiration Date	Title	Amount or Number of Shares
Retention Units 2010-2012	(1)	03/08/2010		P	1,760	(2) (2)	Common Shares	1,760

Reporting Owners

Reporting Owner Name / Address	Relationships
	Director 10% Owner Officer Other
Mehan Richard R. LEVEL 12, THE QUADRANT 1 WILLIAM STREET PERTH, C3 6000	SVP, Pres. & CEO Cliffs Asia-P

Signatures

Traci L. Forrester by Power of Attorney
 03/10/2010
 **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) Convertible into Common Shares on a 1-for-1 basis.

The number represents a grant of Retention Units to the Reporting Person under the Cleveland-Cliffs Inc 2007 Incentive Equity Plan (Plan) covering the period January 1, 2010 through December 31, 2012 (Incentive Period). Payment of the Retention Units is made in cash after the completion of the Incentive Period based upon the employment of the Reporting Person and the market value of the Company's shares at the end of the Incentive Period pursuant to the Plan.

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.