

# 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

(Print or Type Responses)

1. Name and Address of Reporting Person * <b>Mee Terrence R</b>		2. Issuer Name and Ticker or Trading Symbol <b>CLIFFS NATURAL RESOURCES INC. [CLF]</b>		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer (give title below) <input type="checkbox"/> Other (specify below) <div style="border: 1px solid black; padding: 2px; width: fit-content; margin-left: 20px;">SVP Global Iron Ore &amp; Metallic</div>	
(Last) (First) (Middle) <b>1100 SUPERIOR AVENUE, SUITE 1500</b>		3. Date of Earliest Transaction (Month/Day/Year) <b>02/23/2011</b>		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person	
(Street) <b>CLEVELAND, OH 44114-2544</b>		4. If Amendment, Date Original Filed (Month/Day/Year)			
(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 Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	02/23/2011		A	(1)	135	A	\$ 0	702 (2)	I	By VNQDC
Common Stock	02/23/2011		A	(3)	2,565	A	\$ 0	11,103	D	
Common Stock	02/23/2011		F	(4)	1,042	D	\$ 92.67	12,145 (2)	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)

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. Price of Derivative Security (Instr. 5)	9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
						Date Exercisable	Expiration Date					
				Code	V	(A)	(D)					

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Mee Terrence R 1100 SUPERIOR AVENUE SUITE 1500 CLEVELAND, OH 44114-2544			SVP Global Iron Ore & Metallic	

## Signatures

/s/ Gina K. Gunning by Power of Attorney	02/24/2011
--	------------

## 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 deferral into the Issuer's Voluntary Nonqualified Deferred Compensation Plan (the "VNQDC") of a percentage of the Reporting Person's performance share award for the 2008-2010 performance period earned under the Issuer's 2007 Incentive Equity Plan ("Equity Plan")
- (2) Totals adjusted to reflect the deferral into the VNQDC of 30 restricted share units which were previously reported as outstanding restricted share units directly held as of the Form 3 filed on February 7, 2011.
- (3) Reflects the remaining percentage, as referred to in footnote 1 above, of the payout of performance shares for the 2008-2010 performance period earned under the Issuer's Equity Plan.
- (4) Reflects the surrender of 834 performance shares and 208 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.

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.