FORM 4

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

OMB APPROVAL
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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 or Section 30(h) of the Investment Company Act of 1940

Responses	s)															
Name and Address of Reporting Person* Vetor Duke D				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 X Officer (give title below) Other (specify below)				
LL TREE	(First) E TRAIL	(Middle)	3. Date of Earliest Transaction 12/10/2010				n (Month/Day/Year)					SVP	- N. America	in Coai		
I FALLS	(Street) , OH 44023		4. If a	Amendme	nt, E	Oate O	rigir	nal Fi	led(Month	n/Day/Year)		_X_ Form fil	ed by One Repo	orting Person	•	ible Line)
	(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		, if	if Code (Instr. 8)		(A) or Dispos		Disposed o	d of (D) Benefic 5) Reporte		cially Owned Following ed Transaction(s)		6. Ownership Form:	7. Nature of Indired Beneficia Ownersh
						Cod	le	V	Amoun	(A) or (D)	Price		, ,		\ /	
Stock		12/10/2010				S			600	11)	•	20,703			D	
							i uire	the f	orm dis	splays a	curre eficial	ntly valid	OMB con			
Conversion r Exercise rice of Derivative ecurity	Date	3A. Deemed Execution Da	nte, if	4. Transaction Code		5.		6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Ta	ount of derlying urities tr. 3 and	Derivative Security (Instr. 5)	Derivative Securities Beneficially Owned Following Reported	Owners Form of Derivat Securit Direct or India (s) (I)	f Beneficitive Owne (Instruction (D) rect	
												Amount				
L Correction	Address of e D LL TREE FALLS urity tock port on a s exercise ice of erivative	tock Transaction Date (Month/Day/*) Transaction Date (Month/Day/*)	Address of Reporting Person 2 D (First) (Middle) LL TREE TRAIL (Street) FALLS, OH 44023 (State) (Zip) urity 2. Transaction Date (Month/Day/Year) tock 12/10/2010 Table II - onversion Date (Month/Day/Year) 3. Transaction Date (Month/Day/Year) Table II - onversion Exercise ice of erivative (Month/Day/Year)	Address of Reporting Person* 2. I CLI CLI CLI CLI CLI CLI CLI CLI CLI CL	Address of Reporting Person* 2. Issuer Nam CLIFFS NA [CLF] 3. Date of Earli 12/10/2010 4. If Amendment of FALLS, OH 44023 (State) 2. Transaction Date (Month/Day/Year) 2. Transaction Date (Month/Day/Year) 2. Transaction Date (Month/Day/Year) 2. Transaction Date (Month/Day/Year) 3. Transaction Date (e.g., puts, calls, and puts) 3. Transaction Date (Month/Day/Year) 4. Transaction Date (month/Day/Year)	Address of Reporting Person Decorption Person CLIFFS NATURE TRAIL (Street) (Street) (Street) (State) (State) (State) (Zip) (Middle) (A. If Amendment, Interpretation Date (Month/Day/Year) (Month/Day/Year)	Address of Reporting Person 2 2. Issuer Name and Tic CLIFFS NATURAL [CLF] 3. Date of Earliest Transation 12/10/2010 FALLS, OH 44023 (State) 2. Transaction Date (Month/Day/Year) Date (Month/Day/Year) Table I - Derivative Securities Acquire (e.g., puts, calls, warrants of Code (Instr. 8) Table II - Derivative Securities Acquire (Month/Day/Year) 3. Transaction Date (Month/Day/Year) Table II - Derivative Securities Acquire (e.g., puts, calls, warrants of Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8) Table II - Derivative Securities Deneficially owned display to the Code (Instr. 8)	Address of Reporting Person 2	Address of Reporting Person 2	Address of Reporting Person* E D Code V Amount tock 12/10/2010 Table II - Derivative Securities Acquired, Date of error and separate line for each class of securities beneficially owned directly or indirectly contained in the form discretive security Table II - Derivative Securities Acquired, Date (Month/Day/Year) Address of Reporting Person* (First) (Middle) 3. Date of Earliest Transaction (Month/Day 12/10/2010 4. If Amendment, Date Original Filed(Month 21/10/2010) Table I - Non-Derivative Securities and Execution Date, if (Code (Instr. 8)) Code V Amount 21/10/2010 Table II - Derivative Securities Acquired, Disposed (e.g., puts, calls, warrants, options, conversion of Date (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed (e.g., puts, calls, warrants, options, conversion of Odde (Instr. 8) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8)) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8)) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8)) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8)) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8)) Table II - Derivative Securities Acquired (A) or Disposed (Code (Instr. 8))	Address of Reporting Person 2	Address of Reporting Person 2 D 2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF] 3. Date of Earliest Transaction (Month/Day/Year) 4. If Amendment, Date Original Filed(Month/Day/Year) FALLS, OH 44023 (State) (Zip) Table I - Non-Derivative Securities Acquired (Month/Day/Year) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) 2. Transaction Date (Month/Day/Year) (Month/Day/Year) 2. Transaction Date (Execution Date, if any (Month/Day/Year) 2. Transaction Date (Execution Date, if any (Month/Day/Year) 3. Transaction Date (Execution Date, if any (Month/Day/Year) 3. Transaction Date (Execution Date, if any (Month/Day/Year) 3. Transaction Date (Execution Date, if any (Month/Day/Year) 4. Scurities Acquired (A) or Disposed of, or Beneficial (Execution Date, if any (Month/Day/Year) (Month/Day/Year) 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 4. S. (A) or Disposed of, or Beneficial (Execution Date, if any (Month/Day/Year)) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) (Month/Day/Year)	Address of Reporting Person De D 2. Issuer Name and Ticker or Trading Symbol CLIFFS NATURAL RESOURCES INC. [CLF] 3. Date of Earliest Transaction (Month/Day/Year) 12/10/2010 4. If Amendment, Date Original Filed(Month/Day/Year) 5. Relation Direct X Offic 12/10/2010 4. If Amendment, Date Original Filed(Month/Day/Year) Table I - Non-Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (Instr. 3 and 5) Code V Amount (D) Price Table II - Derivative Securities Acquired (A) or Disposed of, or Beneficially Owned Cap, puts, calls, warrants, options, convertible securities of Code (Instr. 3) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Month/Day/Year) (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Month/Day/Year) (Month/Day/Year) (Month/Day/Year) Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (Month/Day/Year) (Month/Day/Year)	Address of Reporting Person 2 D	Address of Reporting Person 2 D	Address of Reporting Person *

Reporting Owners

	Relationships							
Reporting Owner Name / Address	Director	10% Owner	Officer	Other				
Vetor Duke D 17385 TALL TREE TRAIL CHAGRIN FALLS, OH 44023			SVP - N. American Coal					

Signatures

Nancy Watts by Power of Attorney	12/13/2010
**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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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