

SIMMONS HAROLD C  
Form 4  
August 19, 2009

**FORM 4**

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

OMB APPROVAL

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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

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
SIMMONS HAROLD C

2. Issuer Name and Ticker or Trading Symbol  
TITANIUM METALS CORP [TIE]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
5430 LBJ FREEWAY, SUITE 1700  
(Street)

3. Date of Earliest Transaction (Month/Day/Year)  
08/17/2009

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Chairman of the Board

DALLAS, TX 75240

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form 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)	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)
				(A) or (D)	Price		
Common Stock, \$.01 par value	08/17/2009		J <sup>(1)(2)</sup>	V	123,152	D	<u>(1)</u> 444,515 I by CDCT <sup>(3)</sup>
Common Stock, \$.01 par value	08/17/2009		J <sup>(1)(2)</sup>	V	123,152	A	<u>(1)</u> 7,902,224 D
Common Stock, \$.01 par value							47,125,761 I by VHC <sup>(4)</sup>
Common Stock, \$.01							882,568 I by NL <sup>(5)</sup>

par value				
Common Stock, \$.01 par value	826,959	I		by Valhi <u>(6)</u>
Common Stock, \$.01 par value	566,529	I		by NL EMS <u>(7)</u>
Common Stock, \$.01 par value	21,575,875	I		by Spouse <u>(8)</u>
Common Stock, \$.01 par value	15,432	I		by Trust <u>(9)</u>

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.**

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(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 Owned Following Transaction (Instr. 6)
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
SIMMONS HAROLD C 5430 LBJ FREEWAY, SUITE 1700 DALLAS, TX 75240	X	X	Chairman of the Board	
		X		

Simmons Annette C  
5430 LBJ FREEWAY, SUITE 1700  
DALLAS, TX 75240

## Signatures

A. Andrew R. Louis, Attorney-in-fact, for Annette C. Simmons	08/19/2009
__Signature of Reporting Person	Date

A. Andrew R. Louis, Attorney-in-fact, for Harold C. Simmons	08/19/2009
__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) See Exhibit 99.1 attached hereto
- (2) Exempt transaction based on Rule 16a-13 promulgated by the U.S. Securities and Exchange Commission.
- (3) Directly held by the Contran Amended and Restated Deferred Compensation Trust. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships to the persons joining in this filing.
- (4) Directly held by Valhi Holding Company. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships among the persons joining in this filing.
- (5) Directly held by NL Industries, Inc. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships to the persons joining in this filing.
- (6) Directly held by Valhi, Inc. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships to the persons joining in this filing.
- (7) Directly held by NL Environmental Management Services, Inc. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships to the persons joining in this filing.
- (8) Directly held by the reporting person's spouse. The reporting person disclaims beneficial ownership of these shares .
- (9) Directly held by The Annette Simmons Grandchildren's Trust. See Exhibits 99.1 and 99.2 for, among other things, a description of the relationships to the persons joining in this filing.

### Remarks:

Exhibit Index: 99.1 Description of the Transactions

99.2 Additional Information

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.