SIMMONS HAROLD C

Form 4 May 24, 2010

FORM 4

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

2. Issuer Name and Ticker or Trading

OMB APPROVAL

Number: 3235-0287

Expires: January 31, 2005

Estimated average burden hours per response... 0.5

5. Relationship of Reporting Person(s) to

if no longer subject to Section 16. Form 4 or Form 5

Check this box

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF
6. SECURITIES

Form 5 obligations may continue. See Instruction

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

1(b).

(Print or Type Responses)

1. Name and Address of Reporting Person *

SIMMONS HAROLD C		Symbol TITANILIM METALS CODD [TIE]					Issuer					
(Last)	(First)	(Middle)	TITANIUM METALS CORP [TIE] 3. Date of Earliest Transaction					(Check all applicable)				
5430 LBJ FREEWAY, SUITE 1700			(Month/Day/Year) 05/20/2010					_X_ Director _X_ 10% Owner _X_ Officer (give title Other (specify below)				
	(Street)		4. If Amendment, Date Original Filed(Month/Day/Year)			6. Individual or Joint/Group Filing(Check Applicable Line) Form filed by One Reporting Person _X_ Form filed by More than One Reporting						
DALLAS, T	X 75240					Person						
(City)	(State)	(Zip)	Table	e I - Non-D	erivative S	Securi	ties Ac	quired, Disposed	of, or Beneficia	lly Owned		
1.Title of Security (Instr. 3)	2. Transaction D (Month/Day/Yea	ar) Executi any	emed on Date, if /Day/Year)	3. Transactic Code (Instr. 8)	4. Securi onAcquirec Disposec (Instr. 3,	l (A) of (D) 4 and (A) or))	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)		
Common Stock, \$.01 par value	05/20/2010			A(1)	1,000	A	<u>(1)</u>	7,422,787	D			
Common Stock, \$.01 par value								46,888,436	I	by VHC (2)		
Common Stock, \$.01 par value								882,568	I	by NL (3)		
Common Stock, \$.01								826,959	I	by Valhi (4)		

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par value			
Common Stock, \$.01 par value	566,529	I	by NL EMS (5)
Common Stock, \$.01 par value	150,000	I	by Contran (6)
Common Stock, \$.01 par value	21,575,875	I	by Spouse
Common			

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)

I

by Trust (8)

9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr

15,432

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

1. Title of	2.	3. Transaction Date	3A. Deemed	4.	5.	6. Date Exer	cisable and	7. Title a	and	8. Price of
Derivative	Conversion	(Month/Day/Year)	Execution Date, if	Transac	tionNumber	Expiration D	ate	Amount	of	Derivative
Security	or Exercise		any	Code	of	(Month/Day/	Year)	Underly	ing	Security
(Instr. 3)	Price of		(Month/Day/Year)	(Instr. 8) Derivativ	e		Securitie	es	(Instr. 5)
	Derivative				Securities	3		(Instr. 3	and 4)	
	Security				Acquired					
					(A) or					
					Disposed					
					of (D)					
					(Instr. 3,					
					4, and 5)					
									mount	
						Date	Expiration	01		
						Exercisable Date		Title Number		
								of		
				Code \	V (A) (D)			S	hares	

Reporting Owners

Stock, \$.01

par value

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					

Reporting Owners 2

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

Signatures

A. Andrew R. Louis, Attorney-in-fact, for Annette C.
Simmons

05/24/2010

**Signature of Reporting Person Date

A. Andrew R. Louis, Attorney-in-fact, for Harold C.
Simmons

05/24/2010

**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) Shares issued for no cash consideration to directors under the Titanium Metals Corporation 2008 Long-Term Incentive Plan.
- (2) Directly held by Valhi Holding Company. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.
- (3) Directly held by NL Industries, Inc. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.
- (4) Directly held by Valhi, Inc. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.
- (5) Directly held by NL Environmental Management Services, Inc. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.
- (6) Directly held by Contran Corporation. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.
- (7) Directly held by the reporting person's spouse. The reporting person disclaims beneficial ownership of these shares.
- (8) Directly held by The Annette Simmons Grandchildren's Trust. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship to the persons joining in this filing.

Remarks:

Exhibit Index:

Exhibit 99 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.

Signatures 3