

SIMMONS HAROLD C  
Form 5  
February 10, 2010

**FORM 5**

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

OMB APPROVAL

OMB Number: 3235-0362  
Expires: January 31, 2005  
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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).  
Form 3 Holdings Reported Form 4 Transactions Reported

**ANNUAL 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

1. Name and Address of Reporting Person \*  
**SIMMONS HAROLD C**  
  
(Last) (First) (Middle)  
  
5430 LBJ FREEWAY, SUITE 1700  
  
(Street)

2. Issuer Name and Ticker or Trading Symbol  
**TITANIUM METALS CORP [TIE]**  
  
3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)  
12/31/2009

5. Relationship of Reporting Person(s) to Issuer  
  
(Check all applicable)  
  
 Director  10% Owner  
 Officer (give title below)  Other (specify below)  
Chairman of the Board

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

6. Individual or Joint/Group Reporting  
  
(check applicable line)

DALLAS, TX 75240

Form Filed by One Reporting Person  
 Form Filed by More than One Reporting Person

| 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 at end of Issuer's Fiscal Year (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |                          |  |
|  |                                      |  |                                | (A) or (D)  | Amount   | Price  |  |                          |  |
| Common Stock, \$.01 par value  | 06/01/2009                           | Â  | J <sup>(1)</sup>               | 250,000 D   | \$ <sup>(1)</sup>  | 21,575,875   | I  | by Spouse <sup>(2)</sup> |  |
| Common Stock, \$.01 par value  | 07/23/2009                           | Â  | J <sup>(3)</sup>               | 125,000 D   | \$ <sup>(3)</sup>  | 47,195,276   | I  | by VHC <sup>(4)</sup>    |  |
| Common   | 10/14/2009                           | Â  | G <sup>(5)</sup>               | 485,437 D   | \$ <sup>(5)</sup>  | 7,421,787  | D  | Â                        |  |

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|  |            |   |                  |         |   |                     |         |   |  |  |
|--|------------|---|------------------|---------|---|---------------------|---------|---|--|--|
| Stock,<br>\$.01 par<br>value           |            |   |                  |         |   |                     |         |   |  |  |
| Common<br>Stock,<br>\$.01 par<br>value | 12/04/2009 | Â | J <sup>(6)</sup> | 375,000 | D | \$ <sup>(6)</sup> 0 |         | I |  | by Contran <sup>(7)</sup>                      |
| Common<br>Stock,<br>\$.01 par<br>value | Â          | Â | Â                | Â       | Â | Â                   | 826,959 | I |  | by Valhi <sup>(8)</sup>                        |
| Common<br>Stock,<br>\$.01 par<br>value | Â          | Â | Â                | Â       | Â | Â                   | 882,568 | I |  | by NL <sup>(9)</sup>                           |
| Common<br>Stock,<br>\$.01 par<br>value | Â          | Â | Â                | Â       | Â | Â                   | 566,529 | I |  | by NL EMS <sup>(10)</sup>                      |
| Common<br>Stock,<br>\$.01 par<br>value | Â          | Â | Â                | Â       | Â | Â                   | 15,432  | I |  | by<br>Grandchildren's<br>Trust <sup>(11)</sup> |

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 2270  
(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. of of D S B O E I S F I |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|----------------------------|
|  |  |                                      |  |                                |   | Date Exercisable   | Expiration Date   | Title                                      | Amount or Number of Shares |
|  |  |                                      |  |                                |   | (A) (D)  |   |  |                            |

## Reporting Owners

| Reporting Owner Name / Address  | Relationships |           |                         |       |
|---|---------------|-----------|-------------------------|-------|
|   | Director      | 10% Owner | Officer                 | Other |
| SIMMONS HAROLD C<br>5430 LBJ FREEWAY, SUITE 1700<br>DALLAS, TX 75240                | Â X           | Â X       | Â Chairman of the Board | Â     |
| CONTRAN CORP<br>5430 LBJ FREEWAY, SUITE 1700<br>DALLAS, TX 75240                    | Â             | Â X       | Â                       | Â     |
| VALHI HOLDING CO<br>5430 LBJ FREEWAY, SUITE 1700<br>DALLAS, TX 75240                | Â             | Â X       | Â                       | Â     |
| DIXIE RICE AGRICULTURE CORP INC<br>5430 LBJ FREEWAY, SUITE 1700<br>DALLAS, TX 75240 | Â             | Â X       | Â                       | Â     |
| Simmons Annette C<br>5430 LBJ FREEWAY, SUITE 1700<br>DALLAS, TX 75240               | Â             | Â X       | Â                       | Â     |

## Signatures

|  |            |
|--|------------|
| A. Andrew R. Louis, Attorney-in-fact, for Harold C. Simmons                  | 02/10/2010 |
| __Signature of Reporting Person  | Date       |
| A. Andrew R. Louis, Secretary, for Contran Corporation                       | 02/10/2010 |
| __Signature of Reporting Person  | Date       |
| A. Andrew R. Louis, Secretary, for Valhi Holding Company                     | 02/10/2010 |
| __Signature of Reporting Person  | Date       |
| A. Andrew R. Louis, Secretary, for Dixie Rice Agricultural Corporation, Inc. | 02/10/2010 |
| __Signature of Reporting Person  | Date       |
| A. Andrew R. Louis, Attorney-in-fact, for Annette C. Simmons                 | 02/10/2010 |
| __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) Charitable gift by Annette C. Simmons. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
  - (2) Directly held by Annette C. Simmons. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
  - (3) Charitable gift by Valhi Holding Company. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
  - (4) Directly held by Valhi Holding Company. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.

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- (5) Charitable gift by Harold C. Simmons. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
- (6) Charitable gift by Contran Corporation. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
- (7) Directly held by Contran Corporation. See the Additional Information filed as Exhibit 99 to this statement for a description of the relationship among the persons joining in this filing.
- (8) 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.
- (9) 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.
- (10) 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.
- (11) 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.

Note: File three copies of this Form, one of which must be manually signed. If space provided 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.