

TITANIUM METALS CORP
 Form 5
 January 11, 2007

FORM 5

**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).
 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 Annette C

(Last) (First) (Middle)

5430 LBJ FREEWAY, SUITE
 1700, A

(Street)

DALLAS, TX 75240

(City) (State) (Zip)

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

3. Statement for Issuer's Fiscal Year Ended (Month/Day/Year)
 12/31/2006

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

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

___ Director ___X___ 10% Owner
 ___ Officer (give title below) ___ Other (specify below)

6. Individual or Joint/Group Reporting

(check applicable line)

___ Form Filed by One Reporting Person
 ___X___ 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 Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|--|--|---|
| Common Stock, \$.01 par value | 04/26/2006 | A | G | (A) 327,400 (1) | D \$ 0 128,600 (1) | D | A |
| Common Stock, \$.01 par value | A | A | A | A A | 59,961,400 | I | by Spouse (2) |

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Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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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. of D Se B O E Is F (I |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--------------------------|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--------------------------|

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|-------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| Simmons Annette C 5430 LBJ FREEWAY, SUITE 1700 DALLAS, TX 75240 | ^ | ^ X | ^ | ^ |
| SIMMONS HAROLD C THREE LINCOLN CENTRE 5430 LBJ FREEWAY STE 1700 DALLAS, TX 75240-2697 | ^ X | ^ X | ^ Chairman of the Board | ^ |

Signatures

A. Andrew R. Louis, Attorney-in-fact, for Annette C. Simmons
01/11/2007
**Signature of Reporting Person Date

A. Andrew R. Louis, Attorney-in-fact, for Harold C. Simmons
01/11/2007
**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).

Shares gifted and beneficially owned after the gift have been adjusted to reflect the subsequent two-for-one split in the form of a stock dividend declared by the issuer's board of directors and paid as of the close of business on May 15, 2006, to holders of record as of the close of business on May 5, 2006.

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- Represents shares that the reporting person's spouse may be deemed to own directly or indirectly. The Reporting Person's spouse disclaims beneficial ownership of any shares of the issuer's common stock he does not directly own or that his spouse holds. See the
- (2) Additional Information filed as Exhibit 99 to this statement for a description of the direct and indirect ownership of 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.