Chemtura CORP Form 5 January 22, 2007

FORM 5

OMB APPROVAL

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

OMB 3235-0362 Number: January 31,

2005

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

Check this box if

ANNUAL STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

Estimated average burden hours per response... 1.0

Expires:

may continue. See Instruction 1(b).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section

Reported Form 4

30(h) of the Investment Company Act of 1940

Transactions Reported

| 1. Name and Address of Reporting Person * Meadows-Smith Marcus C | | | 2. Issuer Name and Ticker or Trading Symbol | 5. Relationship of Reporting Person(s) to Issuer | | | |
|--|--------|----------|---|--|--|--|--|
| (Last) (First) (Middle) | | (Middle) | Chemtura CORP [CEM] 3. Statement for Issuer's Fiscal Year Ended | (Check all applicable) | | | |
| | | | (Month/Day/Year) | Director 10% Owner | | | |
| | | | 12/31/2006 | _X_ Officer (give title Other (specify | | | |
| 199 BENSO | N ROAD | | | below) below) Executive VP, Crop Protection | | | |
| (Street) | | | 4. If Amendment, Date Original | 6. Individual or Joint/Group Reporting | | | |
| | | | Filed(Month/Day/Year) | | | | |
| | | | | (check applicable line) | | | |

MIDDLEBURY, CTÂ 06749

X 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. Securi Acquired Disposed (Instr. 3, | l (A) o l of (D |)) | 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 | Â | Â | Â | Â | Â | Â | 13,500 | I | Restricted Stock Account | | |
| Common Stock | 01/22/2007 | Â | A | 312 | A | \$0 | 15,502 (1) | I | Restricted Stock Account i | | |
| Common Stock | Â | Â | Â | Â | Â | Â | 15,000 | I | Restricted Stock Account II | | |

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| Common Stock | Â | Â | Â | Â | Â | Â | 5,800 | I | Restricted Stock Account: Merger Integration Grants |
|-----------------|------------|---|---|-------|---|-----|-----------|---|---|
| Common Stock | 01/22/2007 | Â | A | 3,232 | A | \$0 | 4,419 (2) | I | Savings Plan (401k) Trust |
| Common Stock | 01/22/2007 | Â | A | 5,790 | A | \$0 | 8,237 (3) | I | Supplemental Savings Plan |

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) | |
|---|---|---|---|---|---|-----|--|--------------------|---|-------------------------------------|
| | | | | | (A) | (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| ISO Stock Option (Right to Buy) | \$ 8.1562 | Â | Â | Â | Â | Â | 10/31/2001 | 10/31/2010 | Common Stock | 2,500 |
| ISO Stock Option (Right to Buy) | \$ 8.3437 | Â | Â | Â | Â | Â | 10/19/2000 | 10/19/2009 | Common Stock | 500 |
| ISO Stock Option (Right to Buy) | \$ 16.875 | 01/22/2007 | Â | E <u>(4)</u> | Â | 500 | 10/16/1997 | 10/15/2006 | Common Stock | 500 |
| NQ Stock Option | \$ 5.85 | Â | Â | Â | Â | Â | 10/20/2004 | 11/19/2013 | Common Stock | 3,000 |

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| (Right to Buy) | | | | | | | | | | |
|--|----------|---|---|---|---|---|------------|------------|-----------------|--------|
| NQ Stock Option (Right to Buy) | \$ 7.25 | Â | Â | Â | Â | Â | 10/22/2003 | 11/21/2012 | Common Stock | 3,000 |
| NQ Stock Option (Right to Buy) | \$ 7.92 | Â | Â | Â | Â | Â | 10/23/2002 | 11/22/2011 | Common Stock | 2,500 |
| NQ Stock Option (Right to Buy) | \$ 10.75 | Â | Â | Â | Â | Â | 03/06/2007 | 04/05/2016 | Common Stock | 45,000 |
| NQ Stock Option (Right to Buy) | \$ 11.24 | Â | Â | Â | Â | Â | 11/23/2005 | 12/22/2014 | Common Stock | 35,000 |
| NQ Stock Option (Right to Buy) | \$ 12.46 | Â | Â | Â | Â | Â | 01/31/2007 | 02/29/2016 | Common Stock | 17,400 |
| NQ Stock Option (Right to Buy) | \$ 12.92 | Â | Â | Â | Â | Â | 02/23/2006 | 03/22/2015 | Common Stock | 45,000 |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | | |
|---|---------------|-----------|-------------------------------|-------|--|--|--|
| | Director | 10% Owner | Officer | Other | | | |
| Meadows-Smith Marcus C 199 BENSON ROAD MIDDLEBURY, CT 06749 | Â | Â | Executive VP, Crop Protection | Â | | | |

Signatures

Marcus Meadows-Smith 01/22/2007

**Signature of Date Reporting Person

Reporting Owners 3

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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).
- (2) These shares were acquired during the fiscal year pursuant to the Registrant's Savings Plan (401K) Trust and through reinvestment of dividends paid on shares in this fund.
- (4) Expired by its term without exercise or payment.
- (3) These shares were acquired during the fiscal year pursuant to the Registrant's Supplemental Savings Plan and through reinvestment of dividends paid on the shares in this fund.
- (1) These shares were acquired during the fiscal year through reinvestment of dividends paid on the shares in this fund.

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.