3M CO Form 5 January 24, 2007

Reminder: Report on a separate line for each class of

securities beneficially owned directly or indirectly.

FORM 5 **OMB** UNITED STATES SECURITIES AND EXCHANGE COMMISSION 3235-0362 Number: Washington, D.C. 20549 Check this box if January 31, Expires: no longer subject 2005 to Section 16. Estimated average ANNUAL STATEMENT OF CHANGES IN BENEFICIAL Form 4 or Form burden hours per 5 obligations OWNERSHIP OF SECURITIES response... 1.0 may continue. See Instruction Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, 1(b). Form 3 Holdings Section 17(a) of the Public Utility Holding Company Act of 1935 or Section Reported 30(h) of the Investment Company Act of 1940 Form 4 Transactions Reported 1. Name and Address of Reporting Person * 2. Issuer Name and Ticker or Trading 5. Relationship of Reporting Person(s) to Issuer ESKEW MICHAEL L Symbol 3M CO [MMM] (Check all applicable) 3. Statement for Issuer's Fiscal Year Ended (Last) (First) (Middle) (Month/Day/Year) _X_ Director 10% Owner Officer (give title 12/31/2006 Other (specify below) below) 55 GLENLAKE PARKWAY NE (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Reporting Filed(Month/Day/Year) (check applicable line) ATLANTA. GAÂ 30328 _X_ Form Filed by One Reporting Person Form Filed by More than One Reporting (City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned 3. 1.Title of 2. Transaction Date 2A. Deemed 4. Securities 5. Amount of 6. 7. Nature of Security (Month/Day/Year) Execution Date, if Transaction Acquired (A) or Securities Ownership Indirect (Instr. 3) Code Disposed of (D) Beneficially Form: Direct Beneficial (Month/Day/Year) (Instr. 8) (Instr. 3, 4 and 5) Owned at end (D) or Ownership of Issuer's Indirect (I) (Instr. 4) Fiscal Year (Instr. 4) (A) (Instr. 3 and Amount (D) Price Common by Â Â Â Â Â Â 8,653 Stock Corporation

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

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contained in this form are not required to respond unless

the form displays a currently valid OMB control number.

SEC 2270

(9-02)

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| 1. Title of | 2. | 3. Transaction Date | 3A. Deemed | 4. | 5. | 6. Date Exerc | cisable and | 7. Title | and | 8. Price of |
|-------------|-------------|---------------------|--------------------|-------------|------------|---------------|-------------|-----------|------------|-------------|
| Derivative | Conversion | (Month/Day/Year) | Execution Date, if | Transaction | Number | 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) | Derivative | e | Securities | | (Instr. 5) | |
| | Derivative | | | | Securities | | | (Instr. 3 | and 4) | |
| | Security | | | | Acquired | | | | | |
| | • | | | | (A) or | | | | | |
| | | | | | Disposed | | | | | |
| | | | | | of (D) | | | | | |
| | | | | | (Instr. 3, | | | | | |
| | | | | | 4, and 5) | | | | | |
| | | | | | ., , | | | | | |
| | | | | | (A) (D) | Date | Expiration | Title A | mount | |
| | | | | | | Exercisable | Date | O | r | |
| | | | | | | | | N | lumber | |
| | | | | | | | | 0 | f | |
| | | | | | | | | S | hares | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | | | |
|--|---------------|-----------|---------|-------|--|--|
| | Director | 10% Owner | Officer | Other | | |
| ESKEW MICHAEL L 55 GLENLAKE PARKWAY NE ATLANTA, GA 30328 | ÂX | Â | Â | Â | | |

Signatures

By: George Ann Biros For: Michael L
Eskew
01/24/2007

**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).

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Remarks:

The indirectly-held common stock holding (by Corporation) reported in Table I includes deferred divid acquired pursuant to 3M's Director Compensation Plan.

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.

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