

## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden

hours per response: 0.5

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934  
or Section 30(h) of the Investment Company Act of 1940 Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

|  |   |  |
|--|---|--|
| 1. Name and Address of Reporting Person *<br><b>SAUER BRAD T</b><br><br>(Last) (First) (Middle)<br><b>3M CENTER</b><br><br>(Street)<br><b>ST. PAUL MN 55144-1000</b><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><b>3M CO [ MMM ]</b>   | 5. Relationship of Reporting Person(s) to Issuer<br>(Check all applicable)<br>Director 10% Owner<br>Officer (give title below) Other (specify below)<br><b>EXEC VP HEALTH CARE</b>                             |
|  | 3. Date of Earliest Transaction (Month/Day/Year)<br><b>05/04/2012</b> |  |
|  | 4. If Amendment, Date of Original Filed (Month/Day/Year)              | 6. Individual or Joint/Group Filing (Check Applicable Line)<br><input checked="" type="checkbox"/> Form filed by One Reporting Person<br><input type="checkbox"/> 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 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) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|------------|-----------|---|--|---|
|                                 |                                      |  | Code                           | V | Amount  | (A) or (D) | Price     |   |  |   |
| Common Stock                    | 05/04/2012                           |  | M                              |   | 17,026 <sup>(1)</sup>   | A          | \$84.4    | 33,232  | D  |   |
| Common Stock                    | 05/04/2012                           |  | F                              |   | 16,206 <sup>(1)</sup>   | D          | \$88.67   | 17,026  | D  |   |
| Common Stock                    | 05/04/2012                           |  | F                              |   | 350 <sup>(1)</sup>  | D          | \$88.67   | 16,676  | D  |   |
| Common Stock                    | 05/04/2012                           |  | M                              |   | 14,215  | A          | \$76      | 30,891  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 100   | D          | \$88.5915 | 30,791  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 3,700   | D          | \$88.595  | 27,091  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 2,700   | D          | \$88.6    | 24,391  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 2,000   | D          | \$88.605  | 22,391  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 1,300   | D          | \$88.61   | 21,091  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 1,178   | D          | \$88.63   | 19,913  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 100   | D          | \$88.6315 | 19,813  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 2,400   | D          | \$88.635  | 17,413  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 637   | D          | \$88.64   | 16,776  | D  |   |
| Common Stock                    | 05/04/2012                           |  | S                              |   | 100   | D          | \$88.645  | 16,676  | D  |   |
| Common Stock                    | 05/07/2012                           |  | S                              |   | 1,118   | D          | \$88.0519 | 15,558  | D  |   |
| Common Stock                    | 05/07/2012                           |  | S                              |   | 800   | D          | \$88.0615 | 14,758  | D  |   |
| Common Stock                    | 05/07/2012                           |  | S                              |   | 300   | D          | \$88.0616 | 14,458  | D  |   |
| Common Stock                    | 05/07/2012                           |  | S                              |   | 100   | D          | \$88.0617 | 14,358  | D  |   |
| Common Stock                    | 05/07/2012                           |  | S                              |   | 800   | D          | \$88.065  | 13,558  | D  |   |

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 Securities Underlying Derivative Security (Instr. 3 and 4) |                            | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 11. Nature of Indirect Beneficial Ownership (Instr. 4) |
|--|--|--------------------------------------|--|--------------------------------|---|--|-----------------------|--|-----------------|---|----------------------------|--|--|---|--|
|  |  |                                      |  | Code                           | V | (A)  | (D)                   | Date Exercisable   | Expiration Date | Title   | Amount or Number of Shares |  |  |   |  |
| Non-qualified Stock Option (Right to Buy)  | \$84.4   | 05/04/2012                           |  | M                              |   |  | 17,026 <sup>(1)</sup> | 05/12/2005   | 05/09/2014      | Common Stock  | 17,026                     | \$0  | 974  | D   |  |
| Non-qualified Stock Option (Right to Buy)  | \$76   | 05/04/2012                           |  | M                              |   |  | 14,215                | 04/27/2010   | 05/13/2013      | Common Stock  | 14,215                     | \$0  | 0  | D   |  |
| Non-qualified Stock Option (Right to Buy)  | \$88.67  | 05/04/2012                           |  | A                              |   |  | 16,556                | 11/04/2012   | 05/09/2014      | Common Stock  | 16,556                     | \$88.67                                    | 16,556   | D   |  |

Explanation of Responses:

1. This Form is being filed to report the exercise of a 3M stock option for a total of 17,026 shares by means of a stock swap. A stock swap is a method of exercising a stock option in which the option holder attests to the ownership of enough shares of stock already owned by the option holder to cover the exercise price of the option being exercised. As a result of this stock swap, the reporting person acquired ownership of an additional 470 shares of 3M common stock. As a result of this transaction, 350 shares were sold to pay withholding taxes to the respective government agencies.

George Ann Biros, attorney-in-fact 05/08/2012  
for Brad T. Sauer

\*\* Signature of Reporting Person                      Date

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

\* 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).

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

**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 Number.**