

McGrath Marlene Mary
 Form 3
 April 11, 2012

FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549

OMB APPROVAL

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INITIAL STATEMENT OF 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

(Print or Type Responses)

| | | | | |
|---|---------|---|---|---|
| 1. Name and Address of Reporting Person * | | 2. Date of Event Requiring Statement | 3. Issuer Name and Ticker or Trading Symbol | |
| McGrath Marlene Mary | | (Month/Day/Year) | 3M CO [MMM] | |
| (Last) | (First) | (Middle) | 04/04/2012 | |
| 3M CENTER | | 4. Relationship of Reporting Person(s) to Issuer | | 5. If Amendment, Date Original Filed(Month/Day/Year) |
| (Street) | | (Check all applicable) | | 6. Individual or Joint/Group Filing(Check Applicable Line) |
| ST. PAUL, MN 55144-1000 | | <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other (give title below) (specify below) | | <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person |
| (City) | (State) | (Zip) | Sr VP - Human Resources | |

Table I - Non-Derivative Securities Beneficially Owned

| 1. Title of Security (Instr. 4) | 2. Amount of Securities Beneficially Owned (Instr. 4) | 3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) | 4. Nature of Indirect Beneficial Ownership (Instr. 5) |
|---------------------------------|---|--|---|
| Common Stock | 1,949 | D | McGrath Marlene Mary |

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

SEC 1473 (7-02)

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

| 1. Title of Derivative Security (Instr. 4) | 2. Date Exercisable and Expiration Date (Month/Day/Year) | 3. Title and Amount of Securities Underlying Derivative Security (Instr. 4) | 4. Conversion or Exercise Price of Derivative Security | 5. Ownership Form of Derivative Security: Direct (D) or Indirect | 6. Nature of Indirect Beneficial Ownership (Instr. 5) |
|--|--|---|--|--|---|
| | Date Exercisable Expiration Date | Title Amount or Number of | | | |

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| | | | | Shares | | (I) (Instr. 5) | |
|---|------------|------------|--------------|--------|----------|-------------------|---|
| Restricted Stock Units | Â (2) | Â (2) | Common Stock | 911 | \$ (1) | D | Â |
| Non-qualified Stock Option (Right to Buy) | 05/12/2005 | 05/09/2014 | Common Stock | 2,020 | \$ 84.4 | D | Â |
| Non-qualified Stock Option (Right to Buy) | 05/09/2007 | 05/09/2016 | Common Stock | 2,236 | \$ 87.35 | D | Â |
| Non-qualified Stock Option (Right to Buy) | 05/08/2008 | 05/08/2017 | Common Stock | 2,560 | \$ 84.78 | D | Â |
| Non-qualified Stock Option (Right to Buy) | 05/13/2009 | 05/13/2018 | Common Stock | 1,131 | \$ 77.18 | D | Â |
| Non-qualified Stock Option (Right to Buy) | 02/09/2010 | 02/08/2019 | Common Stock | 1,335 | \$ 54.11 | D | Â |
| Non-qualified Stock Option (Right to Buy) (3) | 02/09/2011 | 02/07/2020 | Common Stock | 4,100 | \$ 78.72 | D | Â |
| Non-qualified Stock Option (Right to Buy) (4) | 02/08/2012 | 02/08/2021 | Common Stock | 3,573 | \$ 89.47 | D | Â |
| Non-qualified Stock Option (Right to Buy) (5) | 02/07/2013 | 02/07/2022 | Common Stock | 5,360 | \$ 87.89 | D | Â |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|--|---------------|-----------|---------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| McGrath Marlene Mary 3M CENTER ST. PAUL, MN 55144-1000 | Â | Â | Â Sr VP - Human Resources | Â |

Signatures

/s/ George Ann Biros, attorney-in-fact for Marlene M. McGrath 04/11/2012

**Signature of Reporting Person

Date

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 5(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) Each restricted stock unit represents a contingent right to receive one share of 3M common stock.
- (2) The restricted stock units will vest on 2/9/2013.
- (3) This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/9/2010).
- (4) This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/8/2011).
- (5) This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/7/2012).

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

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