

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934
or Section 30(h) of the Investment Company Act of 1940

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

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	

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: Direct (D) or Indirect (I) (Instr. 5)	6. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exercisable	Expiration Date				
Restricted Stock Units	(2)	(2)	Common Stock	911	(1)	D
Non-qualified Stock Option (Right to Buy)	05/12/2005	05/09/2014	Common Stock	2,020	84.4	D
Non-qualified Stock Option (Right to Buy)	05/09/2007	05/09/2016	Common Stock	2,236	87.35	D
Non-qualified Stock Option (Right to Buy)	05/08/2008	05/08/2017	Common Stock	2,560	84.78	D
Non-qualified Stock Option (Right to Buy)	05/13/2009	05/13/2018	Common Stock	1,131	77.18	D
Non-qualified Stock Option (Right to Buy)	02/09/2010	02/08/2019	Common Stock	1,335	54.11	D
Non-qualified Stock Option (Right to Buy) ⁽³⁾	02/09/2011	02/07/2020	Common Stock	4,100	78.72	D
Non-qualified Stock Option (Right to Buy) ⁽⁴⁾	02/08/2012	02/08/2021	Common Stock	3,573	89.47	D
Non-qualified Stock Option (Right to Buy) ⁽⁵⁾	02/07/2013	02/07/2022	Common Stock	5,360	87.89	D

Explanation of Responses:

- Each restricted stock unit represents a contingent right to receive one share of 3M common stock.
- The restricted stock units will vest on 2/9/2013.
- This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/9/2010).
- This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/8/2011).
- This option becomes exercisable in equal installments on each of the first three anniversaries of the grant date (2/7/2012).

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

** 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 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).

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.

LIMITED POWER OF ATTORNEY FOR
SECTION 16 REPORTING OBLIGATIONS

Know all by these presents, that the undersigned hereby constitutes and appoints each of Steve J. Beilke, George Ann Biros, Michael M. Dai, Patricia L. Meagher, and Gregg M. Larson, each acting individually, as the undersigned's true and lawful attorney-in-fact, with full power and authority as hereinafter described on behalf of and in the name, place and stead of the undersigned to:

(1) prepare, execute, acknowledge, deliver and file Forms 3, 4, and 5 (including any amendments thereto) with respect to the securities of 3M Company, a Delaware corporation (the "Company"), with the United States Securities and Exchange Commission, any national securities exchanges and the Company, as considered necessary or advisable under Section 16(a) of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, as amended from time to time (the "Exchange Act");

(2) seek or obtain, as the undersigned's representative and on the undersigned's behalf, information on transactions in the Company's securities from any third party, including brokers, employee benefit plan administrators and trustees, and the undersigned hereby authorizes any such person to release any such information to the above named attorneys-in-fact and approves and ratifies any such release of information; and

(3) perform any and all other acts which in the discretion of such attorney-in-fact are necessary or desirable for and on behalf of the undersigned in connection with the foregoing.

The undersigned acknowledges that:

(1) this Power of Attorney authorizes, but does not require, each such attorney-in-fact to act in their discretion on information provided to such attorney-in-fact without independent verification of such information;

(2) any documents prepared and/or executed by either such attorney-in-fact on behalf of the undersigned pursuant to this Power of Attorney will be in such form and will contain such information and disclosure as such attorney-in-fact, in his or her discretion, deems necessary or desirable;

(3) neither the Company nor either of such attorneys-in-fact assumes (i) any liability for the undersigned's responsibility to comply with the requirement of the Exchange Act, (ii) any liability of the undersigned for any failure to comply with such requirements, or (iii) any obligation or liability of the undersigned for profit disgorgement under Section 16(b) of the Exchange Act; and

(4) this Power of Attorney does not relieve the undersigned from responsibility for compliance with the undersigned's obligations under the Exchange Act, including without limitation the reporting requirements under Section 16 of the Exchange Act.

The undersigned hereby gives and grants each of the foregoing attorneys-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary or appropriate to be done in and about the foregoing matters as fully to all intents and purposes as the undersigned might or could do if present, hereby ratifying all that each such attorney-in-fact of, for and on behalf of the undersigned, shall lawfully do or cause to be done by virtue of this Limited Power of Attorney.

This Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities issued by the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Power of Attorney to be executed as of this 4th day of April, 2012.

/s/ Marlene M. McGrath

STATE OF MINNESOTA)
) ss.
COUNTY OF RAMSEY)

On this 4th day of April, 2012, Marlene M. McGrath personally appeared before me, and acknowledged that she executed the foregoing instrument for the purposes therein contained.

IN WITNESS WHEREOF, I have hereunto set my hand and official seal.

/s/ Karen Stanoch Sawczuk
Notary Public

My Commission Expires: 1/31/2015