

**UNITED STATES
SECURITIES AND EXCHANGE COMMISSION**

Washington, D.C. 20549

FORM S-8

**REGISTRATION STATEMENT UNDER THE
SECURITIES ACT OF 1933**

3M COMPANY

(Exact name of registrant as specified in its charter)

Delaware
(State or other jurisdiction
of incorporation or organization)

41-0417775
(I.R.S. Employer
Identification No.)

3M Center
St. Paul, Minnesota 55144
(Address of principal executive offices,
including zip code)

3M 2008 Long-Term Incentive Plan
(Full title of the plan)

Gregg M. Larson
Deputy General Counsel
3M Company
3M Center
St. Paul, Minnesota 55144
(651) 733-2204
(Name, address and telephone number,
including area code, of agent for service)

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, or a smaller reporting company. See the definitions of "large accelerated filer," "accelerated filer" and "smaller reporting company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

(Do not check if a smaller reporting company)

CALCULATION OF REGISTRATION FEE

Title of securities to be registered	Amount to be registered(1)(2)	Proposed maximum offering price per share(3)	Proposed maximum aggregate offering price(3)	Amount of registration fee
Common Stock, par value \$0.01 per share	36,000,000 shares	\$ 87.09	\$ 3,135,240,000	\$ 359,299

(1) Represents shares of common stock of 3M Company that may be offered or delivered pursuant to the 3M2008 Long-Term Incentive Plan.

(2) Pursuant to Rule 416(a) under the Securities Act of 1933, as amended, this registration statement also covers any additional shares of common stock that may be offered or delivered under the 3M 2008 Long-Term Incentive Plan to prevent dilution resulting from stock splits, stock dividends or similar transactions.

(3) Estimated solely for the purpose of calculating the registration fee in accordance with Rule 457(h)(1) and (c) under the Securities Act of 1933, as amended. The proposed maximum offering price is based on the average of the high and low prices of 3M Company common stock as reported on the New York Stock Exchange on May 8, 2012.

EXPLANATORY NOTE

3M 2008 Long-Term Incentive Plan (as amended to date, the "Plan") has recently received the stockholder approval to increase the number of shares of 3M common stock authorized for issuance or delivery pursuant to awards granted under the Plan by an additional 36,000,000 shares, and to revise the rate at which full value awards (primarily performance shares, restricted stock, and restricted stock units) are counted for purposes of the Plan's authorized share limit.

The purpose of this Registration Statement is to register 36,000,000 additional shares of 3M Company's common stock, par value \$0.01 per share (the "Common Stock") for issuance under the Plan. The Common Stock registered hereunder is in addition to the 35,000,000 shares of Common Stock in connection with the Plan previously registered on the Company's Form S-8 filed on May 20, 2008 (Commission File No. 333-151039) and the 29,000,000 shares of Common Stock in connection with the Plan previously registered on the Company's Form S-8 filed on May 18, 2010 (Commission File No. 333-166908) (the "Prior Registration Statements").

This Registration Statement is submitted in accordance with General Instruction E to Form S-8 regarding Registration of Additional Securities. Pursuant to Instruction E, the contents of the Prior Registration Statements are incorporated by reference and made part of this Registration Statement, except as amended hereby.

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 3. Incorporation of Documents by Reference.

The following documents, which have been filed with the Securities and Exchange Commission (the "SEC") by 3M Company ("we," "us," "our" or "3M") and the Plan, are incorporated by reference in this registration statement:

- (a) Our Annual Report on Form 10-K for the fiscal year ended December 31, 2011;
- (b) Our Quarterly Report on Form 10-Q for the fiscal quarter ended March 31, 2012;
- (c) Our Current Reports on Form 8-K filed on February 8, 2012, February 16, 2012 (two reports), February 21, 2012 (two reports), April 17, 2012, May 4, 2012 and May 9, 2012; and
- (d) The description of our common stock contained in any registration statement or report filed by us under the Securities Exchange Act of 1934, as amended (the "Exchange Act"), including any amendment or report filed for the purpose of updating such description.

All documents filed by us or the Plan pursuant to Sections 13(a), 13(c), 14 and 15(d) of the Exchange Act subsequent to the date hereof and prior to the filing of a post-effective amendment which indicates that all securities offered hereby have been sold or which deregisters all securities remaining unsold, shall be deemed to be incorporated by reference herein and to be a part hereof from the respective dates of filing of such documents.

Item 4. Description of Securities.

Not applicable.

Item 5. Interests of Named Experts and Counsel.

Certain legal matters with respect to the validity of the shares of common stock registered hereby have been passed upon for 3M by Gregg M. Larson, Deputy General Counsel of 3M. Mr. Larson is employed by 3M. As of May 26, 2011, Mr. Larson owned or had the right to acquire an aggregate of less than 0.1% of our common stock.

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Item 6. Indemnification of Directors and Officers.

Section 145 of the Delaware General Corporation Law ("DGCL"), as amended, provides that, under certain circumstances, a corporation may indemnify any person who was or is a party or is threatened to be made a party to any threatened, pending or completed action, suit or proceeding, whether civil, criminal, administrative or investigative (other than an action by or in the right of the corporation) by reason of the fact that the person is or was a director, officer, employee or agent of the corporation, or is or was serving at its request in such capacity in another corporation, partnership, joint venture, trust or other enterprise, against expenses (including attorneys' fees), judgments, fines and amounts paid in settlement actually and reasonably incurred by the person in connection with such action, suit or proceeding if the person acted in good faith and in a manner the person reasonably believed to be in or not opposed to the best interests of the corporation, and, with respect to any criminal action or proceeding, had no reasonable cause to believe the person's conduct was unlawful.

Section 102(b)(7) of the DGCL permits a corporation to provide in its certificate of incorporation that a director of the corporation shall not be personally liable to the corporation or its stockholders for monetary damages for breach of fiduciary duty as a director, except for liability (1) for any breach of the director's duty of loyalty to the corporation or its stockholders, (2) for acts or omissions not in good faith or which involve intentional misconduct or a knowing violation of law, (3) for payments of unlawful dividends or unlawful stock repurchases or redemptions, or (4) for any transaction from which the director derived an improper personal benefit. Article Fourteenth of our Certificate of Incorporation provides for such limitation of liability.

Section 34 of our Amended and Restated Bylaws provides that our officers and directors will be indemnified by 3M to the fullest extent permitted by law. Our Amended and Restated Bylaws also provide that 3M shall advance expenses to a director or officer upon receipt of an undertaking by such director or officer to repay such amount if it is ultimately determined that the director or officer is not entitled to be indemnified by 3M. Our Amended and Restated Bylaws do not limit the power of 3M or our board of directors to provide other indemnification and expense reimbursement rights to directors, officers, employees, agents and other persons otherwise than pursuant to our Amended and Restated Bylaws.

We maintain directors' and officers' liability insurance which covers certain liabilities and expenses of our directors and officers and covers 3M for reimbursement of payments to our directors and officers in respect of such liabilities and expenses.

Item 7. Exemption from Registration Claimed.

Not applicable.

Item 8. Exhibits.

See the exhibits listed under "Index to Exhibits" herein.

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Item 9. Undertakings.

(a) The undersigned registrant hereby undertakes:

(1) To file, during any period in which offers or sales are being made, a post-effective amendment to this registration statement:

(i) To include any prospectus required by Section 10(a)(3) of the Securities Act of 1933, as amended (the "Securities Act");

(ii) To reflect in the prospectus any facts or events arising after the effective date of the registration statement (or the most recent post-effective amendment thereof) which, individually or in the aggregate, represent a fundamental change in the information set forth in the registration statement.

Notwithstanding the foregoing, any increase or decrease in volume of securities offered (if the total dollar value of securities offered would not exceed that which was registered) and any deviation from the low or high end of the estimated maximum offering range may be reflected in the form of prospectus filed with the SEC pursuant to Rule 424(b) if, in the aggregate, the changes in volume and price represent no more than a 20% change in the maximum aggregate offering price set forth in the "Calculation of Registration Fee" table in the effective registration statement; and

Robert S. Morrison

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Director

Aulana L. Peters

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Director

Robert J. Ulrich

*By: /s/ Gregg M. Larson
Gregg M. Larson
Attorney-in-Fact

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INDEX TO EXHIBITS

Exhibit Number	Description
3.1	Certificate of Incorporation, as amended as of May 11, 2007, is incorporated by reference from our Form 8-K dated May 14, 2007.
3.2	Bylaws, as amended as of February 10, 2009, are incorporated by reference from our Form 8-K dated February 12, 2009.
5	Opinion of Counsel.*
10	3M 2008 Long-Term Incentive Plan (as amended through February 2012) is incorporated by reference from our Form 8-K dated May 9, 2012.
15	Awareness Letter of PricewaterhouseCoopers LLP (regarding interim financial information).*
23.1	Consent of Counsel (included in Exhibit 5).*
23.2	Consent of PricewaterhouseCoopers LLP.*
24	Power of Attorney.*

* Filed herewith.

May 9, 2012

3M Company
3M Center
St. Paul, MN 55144

RE: Registration Statement on Form S-8 with respect to 3M 2008 Long-Term Incentive Plan (the "Plan")

Ladies and Gentlemen:

I have examined the Registration Statement on Form S-8 (the "Registration Statement") that is being filed by 3M Company (the "Company") with the Securities and Exchange Commission (the "Commission") in connection with the registration under the Securities Act of 1933, as amended (the "Act"), of 36,000,000 shares of the Company's Common Stock, par value \$0.01 per share (the "Shares"), to be issued under the Plan.

As Deputy General Counsel of the Company, I am familiar with the Certificate of Incorporation and the By-Laws of the Company and with its affairs, including the actions taken by the Company in connection with the Plan. I also have examined such other documents and instruments and have made such further investigation as I have deemed necessary or appropriate in connection with this opinion. In my examination, I have assumed the genuineness of all signatures, the legal capacity and competency of all natural persons, the authenticity of all documents submitted to me as originals and the conformity to original documents of all documents submitted to me as copies.

Based upon the foregoing, I am of the opinion that the Shares, when issued pursuant to the terms and conditions set forth in the Plan, will be validly issued, duly authorized, fully paid and non-assessable.

I consent to the filing of this opinion as an exhibit to Registration Statement, and I further consent to the use of my name wherever appearing in the Registration Statement. In giving this consent, I do not admit that I am within the category of persons whose consent is required under Section 7 of the Act or the Rules and Regulations of the Commission.

Very truly yours,

/s/ Gregg M. Larson, Esq.

Gregg M. Larson
Deputy General Counsel

Securities and Exchange Commission
100 F Street, N.E.
Washington, DC 20549

Commissioners:

We are aware that our report dated May 3, 2012 on our review of interim financial information of 3M Company and its subsidiaries for the three month period ended March 31, 2012 and 2011 and included in the Company's quarterly report on Form 10-Q for the quarter ended March 31, 2012 is incorporated by reference in its Registration Statement on S-8 dated May 9, 2012.

Very truly yours,

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP

May 9, 2012

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We hereby consent to the incorporation by reference in this Registration Statement on Form S-8 of 3M Company and its subsidiaries of our report dated February 16, 2012 relating to the financial statements and the effectiveness of internal control over financial reporting of 3M Company, which appears in 3M Company's Annual Report on Form 10-K for the year ended December 31, 2011.

/s/ PricewaterhouseCoopers LLP

PricewaterhouseCoopers LLP
Minneapolis, Minnesota

May 9, 2012

POWER OF ATTORNEY

Each of the undersigned Directors and the Principal Executive and Principal Financial and Accounting Officers of 3M COMPANY, a Delaware corporation, hereby constitute and appoint George W. Buckley, Inge G. Thulin, David W. Meline, Gregg M. Larson, Nicholas C. Gangestad, Marschall I. Smith, and Janet L. Yeomans, and each of them, his or her true and lawful attorneys-in-fact and agents, with full and several power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign one or more Registration Statements under the Securities Act of 1933, as amended, on Form S-8, or such other form as such attorneys-in-fact or any of them may deem necessary or desirable, and to sign any and all amendments (including post-effective amendments and supplements to such registration statement) for the registration of securities in connection with 3M's 2012 Amended and Restated General Employees' Stock Purchase Plan and amended 2008 Long-Term Incentive Plan or such other compensation plans of 3M Company, in such forms as they or any one of them may approve, and to file the same with all exhibits thereto and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents, and each of them, full power and authority to do and perform each and every act and thing such said attorneys and agents may deem necessary or desirable to enable 3M COMPANY to comply with the Securities Act of 1933, as amended, and any rules, regulations, and requirements of the Securities and Exchange Commission in respect thereof, including specifically, but without limiting the generality of the foregoing, power and authority to sign the name of 3M COMPANY, and the names of the undersigned to one or more Registration Statements or amendments thereto and to any instruments and documents filed as part of or in connection therewith; as fully and to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming that said attorneys-in-fact and agents, or any of them or their substitutes, may lawfully do or cause to be done by virtue hereof.

The undersigned have signed this Power of Attorney this 7th day of February 2012.

/s/ George W. Buckley

George W. Buckley, Chairman of the Board, President and Chief Executive Officer (Principal Executive Officer and Director)

/s/ David W. Meline

David W. Meline, Senior Vice President and Chief Financial Officer (Principal Financial Officer)

/s/ Linda G. Alvarado

Linda G. Alvarado, Director

/s/ Nicholas C. Gangestad

Nicholas C. Gangestad, Vice President, Controller and Chief Accounting Officer (Principal Accounting Officer)

/s/ Vance D. Coffman

Vance D. Coffman, Director

/s/ Edward M. Liddy

Edward M. Liddy, Director

/s/ Michael L. Eskew

Michael L. Eskew, Director

/s/ Robert S. Morrison

Robert S. Morrison, Director

/s/ W. James Farrell

W. James Farrell, Director

/s/ Aulana L. Peters

Aulana L. Peters, Director

/s/ Herbert L. Henkel

Herbert L. Henkel, Director

/s/ Robert J. Ulrich

Robert J. Ulrich, Director