UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

POST-EFFECTIVE AMENDMENT NO. 1 TO FORM S-8 **REGISTRATION STATEMENT**

	CABOT COR		
	(Exact Name of Registrant as	specined in its Charter)	
	Delaware tate or Other Jurisdiction of corporation or Organization)	04-2271897 (I.R.S. Employer Identification No.)	
4.11 -	Two Seaport Lane Suite 1300 Boston, MA	02210	
(Addre	ss of Principal Executive Offices)	(Zip Code)	
	Cabot Retirement	Savings Plan	
	Cabot Supplemental Reti (Full Title of th	<u> </u>	
	Brian A. Beru Vice President and C Two Seapor Suite 13 Boston, MA (Name and Address of A	eneral Counsel t Lane 00 02210	
	617-345-(Telephone Number, Including Area		
	er the registrant is a large accelerated filer, an accelerated filer," "accelerated filer" and "smaller reporting cor	ted filer, a non-accelerated filer, or a smaller reporting company. See the apany" in Rule 12b-2 of the Exchange Act.	
Large accelerated filer ⊠		Accelerated filer	
Non-accelerated filer	(Do not check if a smaller reporting company)	Smaller reporting company	

EXPLANATORY NOTE

This post-effective amendment is being filed to clarify that the registered shares may also be issued under the Cabot Supplemental Retirement Savings Plan as employer matching contributions.

PART II

INFORMATION REQUIRED IN THE REGISTRATION STATEMENT

Item 5. Interests of Named Experts and Counsel

The validity of the securities has been passed upon by Brian A. Berube, the registrant's Vice President and General Counsel. At the time of rendering his opinion, Mr. Berube had a beneficial ownership interest in 81,897 shares of the registrant's common stock. It is anticipated that additional shares will be issued to Mr. Berube pursuant to the registrant's equity incentive and employee benefit plans.

Item 8. Exhibits

The exhibit index immediately preceding the exhibits is incorporated herein by reference.

SIGNATURES

The Registrant. Pursuant to the requirements of the Securities Act of 1933, the registrant certifies that it has reasonable grounds to believe that it meets all of the requirements for filing on Form S-8 and has duly caused this Post-Effective Amendment to be signed on its behalf by the undersigned, thereunto duly authorized, in Boston, Massachusetts on this 17th day of January, 2012.

CABOT CORPORATION

By: /s/ Patrick M. Prevost
Patrick M. Prevost
President and Chief Executive Officer

The Plan. Pursuant to the requirements of the Securities Act of 1933, the trustees (or other persons who administer the employee benefit plan) have duly caused this Post-Effective Amendment to be signed on its behalf by the undersigned, thereunto duly authorized, in Boston, Massachusetts on this 17th day of January, 2012.

CABOT RETIREMENT SAVINGS PLAN

By:	r: /s/ Robby D. Sisco	
	Robby D. Sisco	
	Vice President	

SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, this Post-Effective Amendment has been signed by the following persons in the capacities and on the dates indicated.

<u>Signature</u>	<u>Title</u>	<u>Date</u>
/s/ Patrick M. Prevost Patrick M. Prevost	President, Chief Executive Officer and Director (Principal executive officer)	January 17, 2012
/s/ Eduardo E. Cordeiro Eduardo E. Cordeiro	Executive Vice President and Chief Financial Officer (Principal financial officer)	January 17, 2012
/s/ James P. Kelly James P. Kelly	Vice President and Controller (Principal accounting officer)	January 17, 2012
* John F. O'Brien	Director, Non-Executive Chairman of the Board	January 17, 2012
Iohn S. Clarkeson	Director	January 17, 2012

*	Director	January 17, 2012
Juan Enriquez-Cabot		
*	Director	January 17, 2012
Gautam S. Kaji		
*	Director	January 17, 2012
Roderick C.G. MacLeod		
*	Director	January 17, 2012
Henry F. McCance		
*	Director	January 17, 2012
John K. McGillicuddy		

Sue H. Rataj	*	Director	January 17, 2012
Sue II. Kataj			
	*	Director	January 17, 2012
Ronaldo H. Schmitz			
	*	Director	January 17, 2012
Lydia W. Thomas			
<i>y</i>			
	*	Director	January 17, 2012
Mark S. Wrighton	·		

By: /s/ Brian A. Berube Attorney-in-fact

INDEX TO EXHIBITS

Number	Description
5.1	Opinion of Brian A. Berube as to the legality of the securities.
23.1	Consent of Deloitte & Touche LLP.
23.2	Consent of Brian A. Berube (contained in Exhibit 5.1).
24	Power of attorney (previously filed).

January 17, 2012

Cabot Corporation Two Seaport Lane Suite 1300 Boston, MA 02210

Re: Cabot Retirement Savings Plan and Cabot Supplemental Retirement Savings Plan

Ladies and Gentlemen:

I am Vice President and General Counsel of Cabot Corporation, a Delaware corporation (the "Company"), and have represented the Company in connection with the preparation and filing with the Securities and Exchange Commission (the "Commission") under the Securities Act of 1933 (the "Act") of this Post-Effective Amendment No. 1 to the Registration Statement on Form S-8 (the "Registration Statement") filed with the Commission on October 5, 2011 relating to the registration of 500,000 shares (the "Shares") of the Company's common stock, par value \$1.00 per share, issuable pursuant to the Cabot Retirement Savings Plan and the Cabot Supplemental Retirement Savings Plan (referred to collectively as the "Plans").

I have examined the Company's Restated Certificate of Incorporation and By-Laws, as amended to date, and originals, or copies certified or otherwise identified to my satisfaction, of corporate records of the Company, including minute books of the Company, certificates of public officials and of representatives of the Company, statutes and other instruments or documents, as a basis for the opinion hereinafter expressed. In making my examination, I have assumed that all signatures on all documents examined by me are genuine, that all documents submitted to me as originals are accurate and complete, that all documents submitted to me as copies are true and correct copies of the originals thereof and that all information submitted to me was accurate and complete.

Based on the foregoing, I am of the opinion that the Shares have been duly and validly authorized for issuance by all necessary corporate action on the part of the Company and, upon delivery thereof and payment therefor in accordance with the Plans and the Registration Statement, will be validly issued, fully paid, and non-assessable.

This opinion is limited to the original issuance of Shares by the Company.

I am a member of the Massachusetts Bar and the opinion set forth above is limited in all respects to the laws of The Commonwealth of Massachusetts and the General Corporation Law of the State of Delaware, including the reported cases interpreting those laws, as in effect on the date hereof.

I hereby consent to the filing of this opinion with the Commission in connection with the Post-Effective Amendment No. 1 to the Registration Statement in accordance with the requirements of Item 601(b)(5) of Regulation S-K under the Act. In giving such consent, I do not thereby admit that I am in 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/ Brian A. Berube

Brian A. Berube Vice President and General Counsel

CONSENT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM

We consent to the incorporation by reference in this Post-Effective Amendment No. 1 to Registration Statement No. 333-177176 on Form S-8 of our reports relating to the financial statements of Cabot Corporation and the effectiveness of Cabot Corporation's internal control over financial reporting dated November 29, 2011, appearing in the Annual Report on Form 10-K of Cabot Corporation for the year ended September 30, 2011, and our report dated June 28, 2011 relating to the financial statements of the Cabot Retirement Savings Plan appearing in the Annual Report on Form 11-K of the Cabot Retirement Savings Plan for the year ended December 31, 2010.

/s/ Deloitte & Touche LLP

Boston, Massachusetts January 17, 2012