## FORM 4

# UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
Instruction 1(b).

### 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

OMB APPROVAL										
OMB Number: 3235-0287										
Estimated average burden										
hours per respon	ise: 0.5									

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1. Name and Address of Reporting Person <sup>*</sup> ENRIQUEZ CABOT JUAN			2. Issuer Name and Ticker or Trading Symbol <u>CABOT CORP</u> [ CBT ]		5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owne				
(Last) (First) (Middle) C/O CABOT CORPORATION		(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 09/30/2010		Officer (give title below)	Other (specify below)			
TWO SEAPORT LANE			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Individual or Joint/Group Filing (Check Applicable Line)					
(Street) BOSTON	MA	02210		X	Form filed by One Repo Form filed by More than Person	ő			
(City)	(State)	(Zip)							

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

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		2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)			4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			Securities	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership
				Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(Instr. 4)

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

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2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)			Derivative		Expiration Da	ate	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	derivative Securities Beneficially Owned Following Reported	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		(Instr. 4)		
(1)	09/30/2010		A		713.8471		(2)	(3)	Common Stock	713.8471	\$32.57	12,661.9915 <sup>(4)</sup>	D	
	Conversion or Exercise Price of Derivative Security	Conversion or Exercise Price of Derivative Security	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution Date, if any (Month/Day/Year)	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) 3. Deemed Execution Date, (Month/Day/Year) Code (8) Code	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) Code (Instr. 8) Code V	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date (Month/Day/Year) (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) 3. Deemed Execution Date, if any (Month/Day/Year) 4. Transaction Code (Instr. 8) Code (Instr. 8) Code (D) (Inst 4 and 5) Code V (A)	2.     3. Transaction     3A. Deemed     4.     5. Number of       Conversion or Exercise Price of Derivative Security     (Month/Day/Year)     (Month/Day/Year)     4.     5. Number of       Derivative Security     (Month/Day/Year)     (Month/Day/Year)     (Month/Day/Year)     4.     5. Number of       Derivative     (Month/Day/Year)     (Month/Day/Year)     (Month/Day/Year)     4.     5. Number of       Derivative     (Month/Day/Year)     (Month/Day/Year)     (Month/Day/Year)     0.     0.       Code     (V     (A)     (D)     (D)     (D)	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	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)         2. Code       V       (A)       (D)       Date Expiration Date (Month/Day/Year)	2. Conversion or Exercise Price of Derivative Security       3. Transaction Date (Month/Day/Year)       3A. Deemed Execution Date, if any (Month/Day/Year)       4. Execution Date, if any (Month/Day/Year)       5. Number of Derivative Securities Acquirites of (D) (Instr. 3, 4 and 5)       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title an Securities Derivative (Instr. 3 ar         (I)       09/20/2010       00/20/2010       0       0       7. Title an Code (Instr. 8)       1. Securities Acquiries of (D) (Instr. 3, 4 and 5)       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title an Securities Acquiries Acquiries Or (D) (Instr. 3, 4 and 5)	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       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title and Amount of Securities Underlying Derivative Security         0       Derivative Security       5. Number of Derivative Securities       5. Number of Derivative Securities       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)         0       Derivative Securities       5. Number of Derivative Securities       5. Number of Derivative Securities       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)         (I)       00/20/2010       A       7. Title and Amount of Securities       Amount or Number of Shares         (I)       00/20/2010       A       7. Title and Amount of Securities       Title	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 Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)       7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)       8. Price of Derivative Security (Instr. 5)         (I)       00/20/2010       4.       7. Title and Amount of Originative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)       6. Date Exercisable and Expiration Date Date       7. Title and Amount of Securities Underlying Derivative Security (Instr. 5)       8. Price of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)       7. Title and Amount of Number of Shares       8. Price of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)       7. Title and Amount of Number of Shares       8. Price of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	2. Conversion or Exercise Price of Derivative Security       3. Transaction Date (Month/Day/Year)       3. Deemed Execution Date, if any (Month/Day/Year)       4. Transaction Execution Date, if any (Month/Day/Year)       5. Number of Derivative Securities       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title and Amount of Securities Underlying Derivative Security (Instr. 3)       8. Price of Derivative Securities       9. Number of derivative Securities         0       Derivative Security       5. Number of Derivative Securities       5. Number of Derivative Securities       6. Date Exercisable and Expiration Date (Month/Day/Year)       7. Title and Amount of Security (Instr. 3) and 4)       8. Price of Derivative Security (Instr. 5)       9. Number of derivative Securities         0       Derivative Securities       0. Derivative Securities       1. A context of Derivative Securities       1. A context of Derivative Securities       7. Title and Amount of Securities Underlying Derivative Security (Instr. 5)       9. Number of derivative Securities         0       Code       V       (A)       (D)       Date Exercisable       Expiration Date       7. Title and Amount of Security (Instr. 5)       8. Price of derivative Securities       9. Number of derivative Securities         (I)       0.00/200/2010       A       7. Title and A       7. Title and A       7. Title and A       8.471       8.471       8.471       8.471       8.471       8.471	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 Derivative Securities       5. Number of Derivative Securities       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 Securities       9. Number of derivative Securities Beneficially Ownership Form: Disposed of (D) (Instr. 3, 4 and 5)       10. Derivative Securities       10. Derivative Securities       0. Number of Derivative Securities       9. Number of derivative Securities Beneficially Ownership Form: Direct (D) or Indirect (I) (Instr. 4)       10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)       9. Number of Derivative Securities       9. Number of Derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)       9. Number of Derivative Securities       9. Number of Derivative Securities       10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)         (I)       O       I       0.       Date Exercisable       Expiration Date       Title       Amount or Number of Shares       8. Price of Derivative Securities       9. Number of Derivative Securities       10. Ownership Form: Direct (D) Owned Transaction(s)       10.

Explanation of Responses:

1. 1 for 1

2. Immediately exercisable

3. The shares of phantom stock become payable upon the reporting person's termination of service as a director.

4. On July 8, 2010, Cabot's Board of Directors declared a dividend of \$0.18 per share on Cabot common stock, payable on September 10, 2010 to all holders of record of common stock on August 27, 2010. Mr. Enriquez-Cabot received a dividend on his phantom stock units totalling \$2,138.24, which was immediately reinvested in phantom stock units at a price of \$30.97 per share. As a result, 69.0423 phantom stock units were allocated to Mr. Enriquez-Cabot on September 10, 2010.

#### Remarks:

By: Karen Abrams, pursuant toa power of attorney from Juan10/04/2010Enriquez-Cabot

\*\* 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.