

FRAZEE JOHN P JR  
 Form 4  
 August 10, 2005

**FORM 4**

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

OMB APPROVAL

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**STATEMENT OF CHANGES IN 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 \*  
 FRAZEE JOHN P JR

2. Issuer Name and Ticker or Trading Symbol  
 CABOT MICROELECTRONICS CORP [CCMP]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
 08/10/2005

Director  10% Owner  
 Officer (give title below)  Other (specify below)

C/O CABOT MICROELECTRONICS CORPORATION, 870 COMMONS DRIVE

(Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

AURORA, IL 60504

(City) (State) (Zip)

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	V	Amount	(A) or (D)	Price
Common Stock	08/10/2005		P		8,000	A		\$ 28.1925
					10,000	D		

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

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SEC 1474 (9-02)

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

1. Title of Derivative Security (Instr. 3)	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 Underlying Securities (Instr. 3 and 4)		
				Code	V (A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Phantom Stock	\$ 27.45					07/21/2004	07/21/2004	Common Stock	36.4299
Phantom Stock	\$ 28.05					06/14/2004	06/14/2004	Common Stock	106.9519
Phantom Stock	\$ 28.57					08/09/2005	08/09/2005	Common Stock	52.5026
Phantom Stock	\$ 28.72					05/05/2005	05/05/2005	Common Stock	52.2284
Phantom Stock	\$ 29.09					04/22/2005	04/22/2005	Common Stock	51.5641
Phantom Stock	\$ 30.43					01/29/2005	12/29/2004	Common Stock	32.8623
Phantom Stock	\$ 30.81					06/13/2005	06/13/2005	Common Stock	146.0565
Phantom Stock	\$ 32.02					03/08/2005	03/08/2005	Common Stock	1,592.7545
Phantom Stock	\$ 32.75					07/22/2005	07/22/2005	Common Stock	91.6031
Phantom Stock	\$ 34.3					09/28/2004	09/28/2004	Common Stock	116.6181
Phantom Stock	\$ 34.39					08/23/2004	08/23/2004	Common Stock	29.0782
Phantom Stock	\$ 34.9					01/21/2005	01/21/2005	Common Stock	28.6533
Phantom Stock	\$ 36.5					10/06/2004	10/06/2004	Common Stock	27.3973
Phantom Stock	\$ 37.8					11/29/2004	11/29/2004	Common Stock	26.455
	\$ 39.18					12/07/2004	12/07/2004		102.0929

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Phantom Stock				Common Stock	
Phantom Stock	\$ 42.44	03/09/2004	03/09/2004	Common Stock	541.9416
Phantom Stock	\$ 50.1	12/08/2003	12/08/2003	Common Stock	79.8403
Phantom Stock	\$ 50.95	06/17/2003	06/17/2003	Common Stock	1,707.7605
Phantom Stock	\$ 52.5	11/05/2003	11/05/2003	Common Stock	19.0476
Phantom Stock	\$ 55.37	11/03/2003	11/03/2003	Common Stock	162.5429
Phantom Stock	\$ 59.05	09/23/2003	09/23/2003	Common Stock	67.7392
Stock Options (Right to buy)	\$ 32.02	03/08/2006	03/08/2015	Common Stock	10,000
Stock Options (Right to buy)	\$ 38.34	03/11/2004	03/11/2013	Common Stock	7,500
Stock Options (Right to buy)	\$ 42.44	03/09/2005	03/09/2014	Common Stock	10,000
Stock Options (Right to buy)	\$ 46.875	03/13/2002	03/13/2008	Common Stock	7,500
Stock Options (Right to buy)	\$ 65.73	03/12/2003	03/12/2012	Common Stock	7,500

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
FRAZEE JOHN P JR C/O CABOT MICROELECTRONICS CORPORATION 870 COMMONS DRIVE AURORA, IL 60504	X			

## Signatures

H. Carol Bernstein (Power of  
Attorney)

08/10/2005

\_\_Signature of Reporting Person

Date

## Explanation of Responses:

\* 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.

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