

Naman Ananth  
 Form 3  
 January 14, 2011

**FORM 3 UNITED STATES SECURITIES AND EXCHANGE COMMISSION**  
**Washington, D.C. 20549**

OMB APPROVAL

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**INITIAL STATEMENT OF 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 *		2. Date of Event Requiring Statement	3. Issuer Name <b>and</b> Ticker or Trading Symbol	
Â Naman Ananth		(Month/Day/Year)	CABOT MICROELECTRONICS CORP [CCMP]	
(Last)	(First)	(Middle)	01/06/2011	
C/O CABOT MICROELECTRONICS CORPORATION,Â 870 COMMONS DRIVE			4. Relationship of Reporting Person(s) to Issuer	5. If Amendment, Date Original Filed(Month/Day/Year)
(Street)			(Check all applicable)	
AURORA,Â ILÂ 60504			<input type="checkbox"/> Director <input type="checkbox"/> 10% Owner	6. Individual or Joint/Group Filing(Check Applicable Line)
(City)	(State)	(Zip)	<input checked="" type="checkbox"/> Officer <input type="checkbox"/> Other	<input checked="" type="checkbox"/> Form filed by One Reporting Person
			(give title below) (specify below)	<input type="checkbox"/> Form filed by More than One Reporting Person
			VP, Research & Development	

**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 <sup>(1)</sup>	4,604.78	D	Â

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

SEC 1473 (7-02)

**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 control number.**

**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	4. Conversion or Exercise	5. Ownership Form of	6. Nature of Indirect Beneficial Ownership
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	Date Exercisable	Expiration Date	(Instr. 4) Title	Amount or Number of Shares	Price of Derivative Security	Derivative Security: Direct (D) or Indirect (I) (Instr. 5)	(Instr. 5)
Stock Options (Right to Buy)	12/01/2007 <sup>(2)</sup>	12/01/2016	Common Stock	450	\$ 31.57	D	Â
Stock Options (Right to Buy)	11/30/2008 <sup>(3)</sup>	11/30/2017	Common Stock	750	\$ 37.4	D	Â
Stock Options (Right to Buy)	01/21/2009 <sup>(4)</sup>	01/21/2018	Common Stock	1,250	\$ 32.09	D	Â
Stock Options (Right to Buy)	12/01/2009 <sup>(5)</sup>	12/01/2018	Common Stock	2,265	\$ 23.21	D	Â
Stock Options (Right to Buy)	12/01/2010 <sup>(6)</sup>	12/01/2019	Common Stock	4,650	\$ 31.11	D	Â
Stock Options (Right to Buy)	12/01/2011 <sup>(7)</sup>	12/01/2020	Common Stock	3,024	\$ 41.51	D	Â

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Naman Ananth C/O CABOT MICROELECTRONICS CORPORATION 870 COMMONS DRIVE AURORA, IL 60504	Â	Â	Â VP, Research & Development	Â

## Signatures

/s/ H. Carol Bernstein (Power of Attorney) 01/14/2011

\*\*Signature of Reporting Person

Date

## Explanation of Responses:

- \* 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).
- (1) Of this amount, 2,801 are still subject to restrictions according to various vesting schedules.
- (2) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 12/1/2006.
- (3) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 11/30/2007.
- (4) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 1/21/2008.
- (5) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 12/1/2008.
- (6) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 12/1/2009.
- (7) With original vesting schedule of 25% quarterly per year beginning on the first anniversary of grant date 12/1/2010.

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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