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 2. Date of Event Requiring 3. Issuer Name and Ticker or Trading Symbol Person * Statement CABOT MICROELECTRONICS CORP [CCMP] Naman Ananth (Month/Day/Year) 01/06/2011 (Last) (First) (Middle) 4. Relationship of Reporting 5. If Amendment, Date Original Person(s) to Issuer Filed(Month/Day/Year) C/O CABOT (Check all applicable) **MICROELECTRONICS** CORPORATION. 870 10% Owner Director **COMMONS DRIVE** _X__ Officer Other (give title below) (specify below) (Street) 6. Individual or Joint/Group VP, Research & Development Filing(Check Applicable Line) _X_ Form filed by One Reporting Person AURORA, ILÂ 60504 Form filed by More than One Reporting Person (City) (State) (Zip) Table I - Non-Derivative Securities Beneficially Owned 4. Nature of Indirect Beneficial 1. Title of Security 2. Amount of Securities Beneficially Owned Ownership Ownership (Instr. 4) (Instr. 4) (Instr. 5) Form: Direct (D) or Indirect (Instr. 5) Â Common Stock (1) 4,604.78 D Reminder: Report on a separate line for each class of securities beneficially SEC 1473 (7-02) owned directly or indirectly. 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	2. Date Exercisable and	3. Title and Amount of	4.	5.	6. Nature of Indirect
Security	Expiration Date	Securities Underlying	Conversion	Ownership	Beneficial
(Instr. 4)	(Month/Day/Year)	Derivative Security	or Exercise	Form of	Ownership

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			(Instr. 4)		Price of	Derivative	(Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivative Security	Security: Direct (D) or Indirect (I) (Instr. 5)		
Stock Options (Right to Buy)	12/01/2007(2)	12/01/2016	Common Stock	450	\$ 31.57	D	Â	
Stock Options (Right to Buy)	11/30/2008(3)	11/30/2017	Common Stock	750	\$ 37.4	D	Â	
Stock Options (Right to Buy)	01/21/2009(4)	01/21/2018	Common Stock	1,250	\$ 32.09	D	Â	
Stock Options (Right to Buy)	12/01/2009(5)	12/01/2018	Common Stock	2,265	\$ 23.21	D	Â	
Stock Options (Right to Buy)	12/01/2010(6)	12/01/2019	Common Stock	4,650	\$ 31.11	D	Â	
Stock Options (Right to Buy)	12/01/2011(7)	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	Â	Â	VP, Research & Development	Â	
870 COMMONS DRIVE					
AURORA, IL 60504					

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.

Reporting Owners 2

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