

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 and 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) |
| | | | <input type="checkbox"/> Director | <input type="checkbox"/> 10% Owner |
| | | | <input checked="" type="checkbox"/> Officer | <input type="checkbox"/> Other |
| | | | (give title below) (specify below) | |
| | | | VP, Research & Development | |
| AURORA,Â ILÂ 60504 | 6. Individual or Joint/Group Filing(Check Applicable Line) | | | |
| (City) | (State) | (Zip) | <input checked="" type="checkbox"/> Form filed by One Reporting Person | |
| | | | <input type="checkbox"/> Form filed by More than One Reporting Person | |

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 ⁽¹⁾ | 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)

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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 ⁽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 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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