

| OMB APPROVAL                                 |           |
|----------------------------------------------|-----------|
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**STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP**

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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

|                                                                                                                                                                                                           |                                                                                                            |                                                                                                                                                                                      |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. Name and Address of Reporting Person*<br><u>Murphy Michael T.</u><br><br>(Last) (First) (Middle)<br><u>100 CHELMSFORD STREET</u><br><br>(Street)<br><u>LOWELL MA 01851</u><br><br>(City) (State) (Zip) | 2. Issuer Name and Ticker or Trading Symbol<br><u>M/A-COM Technology Solutions Holdings, Inc. [ MTSI ]</u> | 5. Relationship of Reporting Person(s) to Issuer (Check all applicable)<br><br>Director 10% Owner<br>Officer (give title below) Other (specify below)<br><br><u>SVP, Engineering</u> |
|                                                                                                                                                                                                           | 3. Date of Earliest Transaction (Month/Day/Year)<br><u>03/05/2014</u>                                      |                                                                                                                                                                                      |
| 4. If Amendment, Date of Original Filed (Month/Day/Year)                                                                                                                                                  |                                                                                                            |                                                                                                                                                                                      |

**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                    | 03/05/2014                           |                                                    | M                              |   | 2,600                                                             | A          | \$0.64                 | 32,883                                                                                        | D                                                        |                                                       |
| Common Stock                    | 03/05/2014                           |                                                    | s <sup>(1)</sup>               |   | 2,600                                                             | D          | \$17.52 <sup>(2)</sup> | 30,283                                                                                        | D                                                        |                                                       |

**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 Securities Underlying Derivative Security (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4) | 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 |
| Employee Stock Option (Right to Buy)       | \$0.64                                                 | 03/05/2014                           |                                                    | M                              |   | 2,600                                                                                  |     | (3)                                                      | 11/10/2019      | Common Stock                                                                      | 2,600                                      | \$0                                                                                                | 19,880                                                    | D                                                      |       |

**Explanation of Responses:**

- The shares were sold pursuant to a sales plan adopted by the reporting person and intended to comply with Rule 10b5-1 under the Securities Exchange Act of 1934.
- The price reported in Column 4 is a weighted average price. The shares were sold in multiple transactions at prices ranging from \$17.22 to \$17.84, inclusive. The reporting person undertakes to provide to the issuer, any shareholder of the issuer, or the staff of the Securities and Exchange Commission, upon request, full information regarding the number of shares sold at each separate price within the range set forth in this footnote.
- Represents 150,000 stock options originally granted to the reporting person on November 10, 2009. One-fifth (1/5th) of the stock options vested and became exercisable on November 2, 2010 and one-sixtieth (1/60th) of the stock options vest monthly thereafter provided that the reporting person remains in continuous services with the issuer as of each vesting date.

/s/ Clay Simpson, Attorney-in-Fact 03/07/2014

\*\* 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.