

MERCURY COMPUTER SYSTEMS INC  
 Form 4  
 September 26, 2007

**FORM 4**

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

OMB APPROVAL

OMB Number: 3235-0287  
 Expires: January 31, 2005  
 Estimated average burden hours per response... 0.5

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

**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 \*  
 Ryan Terrence M

2. Issuer Name and Ticker or Trading Symbol  
 MERCURY COMPUTER SYSTEMS INC [MRCY]

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)  
 199 RIVERNECK ROAD  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
 09/24/2007

\_\_\_\_ Director \_\_\_\_\_ 10% Owner  
 Officer (give title below) \_\_\_\_\_ Other (specify below)  
 Sr. Vice President

CHELMSFORD, MA 01824  
 (City) (State) (Zip)

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

**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 Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Ownership Indirect Beneficial Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|---|
|                                 |                                      |  |                                | (A) or (D)  | Code V Amount (D) Price   |  |   |

Reminder: Report on a separate line for each class of securities beneficially 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.**

SEC 1474 (9-02)

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

| 1. Title of Derivative Security | 2. Conversion or Exercise | 3. Transaction Date (Month/Day/Year) | 3A. Deemed Execution Date, if any | 4. Transaction Code | 5. Number of Derivative Securities | 6. Date Exercisable and Expiration Date (Month/Day/Year) | 7. Title and Amount of Underlying Securities (Instr. 3 and 4) |
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|
|---------------------------------|---------------------------|--------------------------------------|-----------------------------------|---------------------|------------------------------------|--|---|

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| (Instr. 3)         | Price of<br>Derivative<br>Security | (Month/Day/Year) | (Instr. 8) | Acquired (A)<br>or Disposed of<br>(D)<br>(Instr. 3, 4,<br>and 5) | Code | V | (A)    | (D) | Date<br>Exercisable | Expiration<br>Date | Title  | Amount<br>or<br>Number<br>of Shares |
|--------------------|------------------------------------|------------------|------------|--|------|---|--------|-----|---------------------|--------------------|--------|-------------------------------------|
| Performance Ribhts | \$ 10.48                           | 09/24/2007       |            |  | A    |   | 60,000 |     | <u>(1)</u>          | 09/24/2017         | Common | 60,000                              |

## Reporting Owners

| Reporting Owner Name / Address                                | Relationships |           |                    |       |
|---|---------------|-----------|--------------------|-------|
|   | Director      | 10% Owner | Officer            | Other |
| Ryan Terrence M<br>199 RIVERNECK ROAD<br>CHELMSFORD, MA 01824 |               |           | Sr. Vice President |       |

## Signatures

Craig Barrows,  
Attorney-in-fact

09/26/2007

           \*\*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).

This option vests as to 15,000 shares on July 31, 2008, 20,000 shares on July 31, 2009 and 25,000 shares on July 31, 2010 if certain performance goals related to net bookings for each of fiscal years 2008, 2009 and 2010, respectively are satisfied. Any option shares that do not become exercisable on a vesting date due to failure to satisfy the performance goals for a particular year may become exercisable

- (1) on a subsequent vesting date if the performance goals related to a subsequent fiscal year, when combine with the performance goals for the preceding fiscal year or years, achieve the cumulative goals for the combined period. Any option shares that did not become exercisable on a vesting date stated above will become exercisable on July 31, 2011 if the cumulative performance goals for fiscal years 2008, 2009 and 2010 are met in total by June 30, 2011.

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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