

MERCURY COMPUTER SYSTEMS INC  
 Form 4  
 February 13, 2008

**FORM 4**

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

OMB APPROVAL

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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 \*  
**BERTELLI JAMES R**

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)  
**34 POWERS ROAD**  
 (Street)

3. Date of Earliest Transaction (Month/Day/Year)  
**02/11/2008**

Director  10% Owner  
 Officer (give title below)  Other (specify below)  
**Exec Chairman of the Board**

**HOLLIS, NH 03049**

(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 Following Reported Transaction(s) (Instr. 3 and 4) | 6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4) | 7. Nature of Indirect Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|--|
|                                 |                                      |  | Code                           | V   | Amount  | (A) or (D)   | Price                                      |
| Common Stock                    | 02/11/2008                           |  | S                              |   | 1,800   | D  | \$ 7.8                                     |
| Common Stock                    | 02/11/2008                           |  | S                              |   | 100   | D  | \$ 7.83                                    |
| Common Stock                    | 02/11/2008                           |  | S                              |   | 100   | D  | \$ 7.91                                    |
| Common Stock                    | 02/12/2008                           |  | S                              |   | 2,000   | D  | \$ 7.593                                   |
| Common Stock                    | 02/12/2008                           |  | S                              |   | 2,500   | D  | \$ 7.5988                                  |
|                                 |                                      |  |                                |   |   |  | 840,898                                    |
|                                 |                                      |  |                                |   |   |  | 840,798                                    |
|                                 |                                      |  |                                |   |   |  | 840,698                                    |
|                                 |                                      |  |                                |   |   |  | 838,698                                    |
|                                 |                                      |  |                                |   |   |  | 836,198                                    |

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|              |            |   |       |   |           |         |   |
|--------------|------------|---|-------|---|-----------|---------|---|
| Common Stock | 02/12/2008 | S | 2,000 | D | \$ 7.5625 | 834,198 | D |
| Common Stock | 02/12/2008 | S | 2,000 | D | \$ 7.6765 | 832,198 | D |
| Common Stock | 02/12/2008 | S | 1,500 | D | \$ 7.712  | 830,698 | D |
| Common Stock | 02/12/2008 | S | 2,100 | D | \$ 7.741  | 828,598 | D |
| Common Stock | 02/12/2008 | S | 2,000 | D | \$ 7.8435 | 826,598 | D |
| Common Stock | 02/12/2008 | S | 1,000 | D | \$ 7.92   | 825,598 | D |

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

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(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 (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 Underlying Securities (Instr. 3 and 4) | 8. Price of Derivative Security (Instr. 5) | 9. Number of Derivative Securities Beneficially Owned (Instr. 5) |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|
|--|--|--------------------------------------|--|--------------------------------|---|--|---|--|--|

## Reporting Owners

Reporting Owner Name / Address

Relationships

|  | Director | 10% Owner | Officer | Other                      |
|--|----------|-----------|---------|----------------------------|
| BERTELLI JAMES R<br>34 POWERS ROAD<br>HOLLIS, NH 03049 | X        |           |         | Exec Chairman of the Board |

## Signatures

Robert E. Hult,  
Attorney-in-fact

02/12/2008

\_\_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).

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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