

MERCURY COMPUTER SYSTEMS INC
 Form 4
 August 03, 2007

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 *
FLOOD DOUGLAS

(Last) (First) (Middle)
 4 CONSTITUTION DRIVE
 (Street)

SOUTHBOROUGH, MA 01772
 (City) (State) (Zip)

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

3. Date of Earliest Transaction (Month/Day/Year)
 08/02/2007

4. If Amendment, Date Original Filed(Month/Day/Year)

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

Director 10% Owner
 Officer (give title below) Other (specify below)
 VP, Corporate Development

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 Ownership (Instr. 4) |
|---------------------------------|--------------------------------------|--|--------------------------------|---|---|--|-----------------------------------|
| | | | | (A) or (D) | Price | | |
| Common Stock | 08/02/2007 | | M | V | 1,188 \$ 8.625 | 23,390 ⁽¹⁾ | D |
| Common Stock | 08/02/2007 | | M | V | 6,812 \$ 8.625 | 30,202 | D |
| Common Stock | 08/02/2007 | | S | D | 296 \$ 11.47 | 29,906 | D |
| Common Stock | 08/02/2007 | | S | D | 4,800 \$ 11.5 | 25,106 | D |
| Common Stock | 08/02/2007 | | S | D | 302 \$ 11.52 | 24,804 | D |

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| | | | | | | | |
|--------------|------------|---|-------|---|----------|--------|---|
| Common Stock | 08/02/2007 | S | 400 | D | \$ 11.53 | 24,404 | D |
| Common Stock | 08/02/2007 | S | 200 | D | \$ 11.54 | 24,204 | D |
| Common Stock | 08/02/2007 | S | 800 | D | \$ 11.55 | 23,404 | D |
| Common Stock | 08/02/2007 | S | 100 | D | \$ 11.56 | 23,304 | D |
| Common Stock | 08/02/2007 | S | 1,102 | D | \$ 11.57 | 22,202 | D |

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.

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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 Security (Instr. 3 and 4) | | |
|--|--|--------------------------------------|--|--------------------------------|---|--|---|-------|----------------------------|
| | | | | Code | V (A) (D) | Date Exercisable | Expiration Date | Title | Amount or Number of Shares |
| Incentive Stock Option (Right to buy) | \$ 8.625 | 08/02/2007 | | M | 1,188 | 10/27/2004 10/27/2008 | Common | 1,188 | |
| Non-Qualified Stock Option (Right to buy) | \$ 8.625 | 08/02/2007 | | M | 6,812 | 10/27/2004 10/27/2008 | Common | 6,812 | |

Reporting Owners

| Reporting Owner Name / Address | Relationships | | | |
|---------------------------------------|---------------|-----------|---------------------------|-------|
| | Director | 10% Owner | Officer | Other |
| FLOOD DOUGLAS 4 CONSTITUTION DRIVE | | | VP, Corporate Development | |

SOUTHBOROUGH, MA 01772

Signatures

Craig Barrows,
Attorney-in-fact

08/03/2007

__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).

(1) Includes 198 shares purchased on June 29, 2007 through the Employee Stock Purchase Plan.

(2) Field N/A to this transaction but was completed to allow for electronic filing only.

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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