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OMB APPROVAL  
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U.S. SECURITIES AND EXCHANGE COMMISSION  
Washington, D.C. 20549

FORM 3

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(f) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person

Flood Douglas  
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(Last) (First) (Middle)  
40 Constitution Drive  
-----  
Southborough MA (Street) 01772  
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(City) (State) (Zip)

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2. Date of Event Requiring Statement (Month/Day/Year)

7/1/99

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3. IRS or Social Security Number of Reporting Person (Voluntary)

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4. Issuer Name and Ticker or Trading Symbol

Mercury Computer Systems, Inc. MRCY  
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5 Relationship of Reporting Person to Issuer  
(Check all applicable)

[ ] Director [ ] 10% Owner  
[ X ] Officer (give title below) [ ] Other (specify below)

Vice President, Corporate Development  
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6. If Amendment, Date of Original (Month/Year)

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Table I -- Non-Derivative Securities Beneficially Owned  
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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)
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Reminder: Report on a separate line for each class of securities beneficially  
owned directly or indirectly.

(Print or Type Responses)

Table II -- Derivative Securities Beneficially Owned  
(e.g., puts, calls, warrants, options, convertible securities)

1. Title of Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr.5)	7. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exer- cisable	Expira- tion Date	Title	Amount or Number of Shares			
Stock Option (right to buy)	(1)	10/27/08	Common	40,000	\$8.625	D	
Stock Option (right to buy)	(2)	10/27/08	Common	35,594	\$8.625	D	
Stock Option (right to buy)	12/31/99	10/27/08	Common	4,406	\$8.625	D	

Explanation of Responses:

- (1) This option became/becomes exercisable as to 8,000 shares on each of October 27, 1999, October 27, 2000, October 27, 2001, October 27, 2002 and October 27, 2003.
- (2) This option became exercisable as to 3,594 shares on January 31, 2000 and becomes exercisable as to an additional 32,000 shares on October 27, 2004.

/s/ Douglas Flood

1/18/2001

\*\*Signature of Reporting Person

Date

\*\* 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 provided is insufficient. See Instruction 6 for procedure.

