FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per respons	e: 0.5								

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* FLOOD DOUGLAS (Last) (First) (Middle) 4 CONSTITUTION DRIVE							Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] Ohlie of Earliest Transaction (Month/Day/Year) 06/15/2006								Relationship of Reporting Person(s) to Issuer Check all applicable) Director 10% Owner X Officer (give title below) VP, Corporate Development				ner	
(Street) SOUTHBOROUGH MA 01772 (City) (State) (Zip)							If Amendment, Date of Original Filed (Month/Day/Year) tive Securities Acquired, Disposed of, or Benefi									fividual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day						tion 2A. Deemed Execution Date,			3. Transaction Code (Instr.		4. Securities Acquired (A) of Disposed Of (D) (Instr. 3, 4			5. Amo Securit Benefic Owned		nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Dwnership	
							Code	v	Amount	(A) or (D)	Pri	ce	Reported Transact (Instr. 3	tion(s)			Instr. 4)			
Common Stock 06/15/2						2006			М		5,000	A	\$8	3.625	14	1,662		D		
Common Stock 06/15					5/2006	2006			S		5,000	00 D \$		5.008	9,	9,662		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. Deem Executior if any (Month/Da	Date,	4. Transa Code (l 8)		n of		6. Date Exercisa Expiration Date (Month/Day/Yea		•	7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity nstr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	Amo or Num of Shar	ber						
Non- Qualifed Option Exercise (Right to buy)	\$8.625	06/15/2006			M			5,000	10/27/20	04 1	.0/27/2008	Common	5,0	00 8	\$0.00 ⁽¹⁾	11,812	2	D		

Explanation of Responses:

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

Craig Barrows, Attorney-in-

06/16/2006

fact

** 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.