FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									

3235-0287 OMB Number: 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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

					OI 3	secuo	11 30(11)	or the r	nvesime	rit Coi	npany Act	01 194)						
1. Name and Address of Reporting Person* <u>HAINES GERALD M II</u>						2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									Rela theck	all app	licable)		ssuer Owner (specify
(Last) (First) (Middle) 201 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 07/17/2012											belov		v)	
(Street) CHELMS (City)	SFORD M.)1824 Zip)		4. If	Ame	ndment,	Date o	of Origina	l Filed	i (Month/Da	ay/Yea	r)		Individual or Joint/Group Filing (Check Applicat Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	n-Deriv	ative	Sec	curitie	s Ac	quired,	Dis	posed o	f, or	Bene	eficia	ılly	Owne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution D			Code (Inst						4 and Sec Ben		ount of ities icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
							Code	v	Amount (A) or D)	Price		Transa	action(s) 3 and 4)		(111341.4)		
Common Stock 07/17/				/2012		S		4,415(1	(1) D \$		\$12.	.54	72,701 ⁽²⁾		D				
		Та							,		sed of, onvertib				y Ov	vned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Da	ay/Year) Ti	4. Transa Code (8)				6. Date E Expiration (Month/I	on Dat		e and 7. Title and Amount of Securities Underlying Derivative Security (Instr and 4) Amou		ount			9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	of Sha						

Explanation of Responses:

- 1. The disposition of shares was to cover the required tax withholding triggered by the vesting of restricted stock.
- 2. Includes 419 shares purchased on June 29, 2012 through the Employee Stock Purchase Plan.

Charles A. Speicher, Attorneyin-fact

07/18/2012

** 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.