FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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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).

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* HAINES GERALD M II					<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC MRCY									heck all a	hip of Reportir oplicable) ector icer (give title	ng Pers	10% O	
(Last) (First) (Middle) 201 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/15/2012									^ be			below)	`	
(Street) CHELMSFORD MA 01824 (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) <mark>X</mark> Fo	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tabl	e I - No	n-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	ficia	Ily Ow	ned			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Da						Execution Date,		Transaction Disposed C			ties Acquired (A) I Of (D) (Instr. 3, 4			d Sec Ben Owr	mount of urities eficially ed Following	Form (D) o	vnership n: Direct r Indirect nstr. 4)	7. Nature of Indirect Beneficial Ownership	
									Code	v	Amount	() 1)	A) or D)	Price	Tran	orted saction(s) r. 3 and 4)			(Instr. 4)
Common Stock 0				02/15	7/2012				A		10,000) ⁽¹⁾ A \$		\$ <mark>0</mark> .	00	76,697(2)		D	
		Та									sed of, onvertib				/ Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,		ransaction code (Instr.		n of		6. Date Exercisa Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)			8. Price o Derivative Security (Instr. 5)		O F D O (I)	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	or Num of Shar	.					

Explanation of Responses:

- 1. These shares of restricted stock vest in four equal annual installments beginning on February 15, 2013.
- $2.\ Includes\ 833\ shares\ purchased\ on\ December\ 31, 2011\ through\ the\ Employee\ Stock\ Purchase\ Plan.$

<u>Charles A. Speicher, Attorney-</u> in-fact <u>02/15/2012</u>

** 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.