## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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).

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

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1. Name and Address of Reporting Person*  Ryan Terrence M					MI	2. Issuer Name and Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  [ MRCY ]										5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner  X Officer (give title Other (specify					
(Last) (First) (Middle) 199 RIVERNECK ROAD						3. Date of Earliest Transaction (Month/Day/Year) 01/30/2008										Sr. Vice President					
(Street)	SFORD M.	A	01824		4. If											Individual or Joint/Group Filing (Check A Line)     X Form filed by One Reporting Person     Form filed by More than One Reporting Person					
(City)	(St	ate)	(Zip)			Person															
		Ta	ble I - No	n-Deri\	ative	Sec	uritie	s Ac	quired,	Dis	posed o	f, oı	r Bene	efici	ally C	Owne	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea		Execution Date		n Date,	Code (Instr.		5)				S, 4 and S B O R		5. Amount of Securities Beneficially Owned Following Reported	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	Trans (Instr		action(s) 3 and 4)				
Common	Stock			01/30	0/2008				P		300	_	A	\$7	.78		300	D			
Common	Stock			01/30	0/2008				P		700		A	\$7	7.8	-	1,000	D			
Common Stock				01/30/2008							56		A	\$7.81		1,056		D			
Common Stock				01/30/2008				P		800		A	\$7.82		1,856		D				
Common Stock				01/30	01/30/2008				P		300		A	\$7.88		2,156		D			
Common Stock			01/30	01/30/2008				P		100		A	\$7.89		2,256		D				
Common Stock				01/30	01/30/2008						300		A	\$7.9		2,556		D			
Common Stock			01/30	01/30/2008				P		800		A	\$7.92		3,356		D				
Common	Stock			01/30	)/2008				P		700		A	\$7	.93	2	4,056	D			
Common	Stock			01/30	)/2008				P		100		A	\$7.	935	4	4,156	D			
Common Stock				01/30	)/2008				P		400		A	\$7.94		4,556		D			
Common Stock (				01/30	)/2008				P		536		Α	\$7.99		5,092		D			
Common Stock				01/30	0/2008				P		1,621		Α	\$8		6,713		D			
Common	ommon Stock				)/2008				P		1,908		A	\$8.01		8,621		D			
Common Stock 0					)/2008				P		879		A	\$8.02		9,500		D			
Common Stock 01/3					)/2008				Р 500			A	\$8.03		10,000		D				
		-	ا - Table II )								sed of,					ned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution ) if any	3A. Deemed Execution Date,		4. Transaction Code (Instr. 8)		5. Number of		6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Security (Instr and 4)			8. Pri		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)		
xplanation	n of Respons	ses:				v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nun of	ount nber res							
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Robert E. Hult, Attorney-infact

01/31/2008

Date

\*\* Signature of Reporting Person

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

 $Note: File \ three \ copies \ of \ this \ Form, \ one \ of \ which \ must \ be \ manually \ signed. \ If \ space \ is \ insufficient, \ see \ Instruction \ 6 \ for \ procedure.$ 

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).