FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washin

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

gton, D.C. 20549	OMB APPROVAL

OMB Number: 3235-0287 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 or Section 30(h) of the Investment Company Act of 1940

					OI -	Occur	511 50(11)	or tric i	iivestiiieii	it Con	ipariy Act c	01 13	40							
1. Name and Address of Reporting Person* <u>CHAMILLARD GEORGE W</u>					M	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC MRCY									Relationsh Check all ap X Dire	plicable)	ting Person(s) to Issuer 10% Owner			
	(Fii RY COMPU ERNECK R	UTER SYSTEM	(Middle)			Date o		st Trans	action (M	onth/[Day/Year)		Offic belo	cer (give title w)	Othe belov	r (specify v)				
(Street) CHELMSFORD MA 01824					_ 4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person				
(City)	(St	rate) ((Zip)										Form filed by More than One Reporting Person							
		Tab	le I - Nor	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	osed o	f, o	r Bene	eficia	ally Own	ed				
1. Title of Security (Instr. 3)			2. Transaction Date (Month/Day/Yea		Exec /Year) if any		A. Deemed xecution Date, any Month/Day/Year)	3. Transaction Code (Instr. 8)					nd Secui Bene Owne	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	action(s) 3 and 4)		(5 4)		
Common	Stock			01/28	3/200	3			P		100		A	\$8.	42	100	D			
Common	Stock			01/28/2008					P		200		A	\$8.	43	300	D			
Common	Stock			01/28/2008					P		300		A	\$8.	45	600	D			
Common	Stock			01/28	3/200	3			P		100		A	\$8.	46	700	D			
Common	Stock			01/28	3/2008	3			P		1,300)	A	\$8.	48	2,000	D			
Common	Stock			01/28	01/28/2008				P		2,045	5	A	\$8.	49	4,045	D			
Common Stock			01/28	01/28/2008				P		1,483	3	A	\$8	.5	5,528	D				
Common Stock			01/28	01/28/2008				P		2,328	3	A	\$8.	51	7,856	D				
Common	Stock			01/28	3/200	3			P		100		A	\$8.	52	7,956	D			
Common Stock				01/28	3/200	В			P		400		A	\$8.	53	8,356	D			
Common Stock				01/28	01/28/2008						200		A	\$8.	57	8,556	D			
Common Stock				01/28	01/28/2008				P		44		A	\$8.	61	8,600	D			
Common Stock				01/28	01/28/2008				P		900		A	\$8.	64	9,500	D			
Common Stock				01/28	3/2008	8			P		100		A	\$8.	65	9,600	D			
Common Stock 01/28				3/2008	8			P		100		A	\$8.	66	9,700	D				
Common Stock 01/				01/28	3/200	3			P		300		A	\$8.	68	10,000	D			
		Ta	able II - D								sed of, onvertib				y Owned	l				
1. Title of Derivative Conversion or Exercise (Month/Day/Year) Security (Instr. 3) Price of Derivative Security Security (Month/Day/Year)			ed Date,	4. Transactio Code (Inst		5. Number 6		6. Date Expiration	6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)			
Explanation	n of Respons	ses:			Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Nun of	ount nber ıres						
											Do	hort	E II.	1+ A+						

Robert E. Hult, Attorney-in-<u>fact</u>

01/29/2008

** Signature of Reporting Person

Date

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

 $^{^{\}star}$ 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.	