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* Radford Joel B						2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
					IΓN	[MRCY]										rector	10% (
						[_		fficer (give title elow)	Other below	(specify)	
(Last) (First) (Middle) 199 RIVERNECK ROAD						3. Date of Earliest Transaction (Month/Day/Year) 03/12/2008									V	VP, Strategic Mktg & Alliances			
,						4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable				
(Street)					03/	03/13/2008								Li	ne)				
CHELMSFORD MA 01824														X Form filed by One Reporting Person					
					-											orm filed by Mo erson	m filed by More than One Reporting		
(City)	(S	tate)	(Zip)																
		Tab	le I - Nor	າ-Deri\	ative/	Se	curitie	s Acc	quired,	Dis	osed o	f, or	Bene	eficia	lly Ov	ned			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D						Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		3. 4. Securi Transaction Disposed Code (Instr. 8)			quired (Instr.	(A) or 3, 4 a	nd Sed Bed Ow	amount of curities neficially ned Following ported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) or O)	Price	Tra	nsaction(s) etr. 3 and 4)		(11150.4)	
Common Stock 03/12/						/2008		P		5,000)	A \$		19,673		D			
		Т	able II - [•	•		sed of, onvertib				/ Own	ed			
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 (Month/Da	Date,	4. Transa Code (8)			ative rities ired osed . 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Exercisable Date			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amour or Numbe of		ount nber	8. Price Derivativ Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

Robert E. Hult, Attorney-in-

03/13/2008

<u>fact</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.