FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFICIAL	OWNERSHIP

OMB APPRO	DVAL
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 (Last) (First) (Middle) 199 RIVERNECK ROAD				M] [M 3. D	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] 3. Date of Earliest Transaction (Month/Day/Year) 02/20/2008									Check all a Di X Of be	chip of Reporting policable) rector ficer (give title low) P, Strategic 1		10% C Other below)	owner (specify	
(Street) CHELMS (City)	SFORD M.)1824 Zip)		4. If	Ame	endment	, Date o	of Original	Filed	(Month/Da	ay/Yea	ar)		ne) X Fo	l or Joint/Grou orm filed by On orm filed by Mo orson	e Rep	orting Pers	on
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date		n Date,	Transaction Disposed (Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			nd Sec Ben Owi	mount of urities eficially ned Following orted	Forn (D) o	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	Trai	saction(s) tr. 3 and 4)			(111501.4)
Common Stock 02/2)/2008				F		886		D \$7.2		25	5 14,673		D	
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
Derivative Security Conversion or Exercise (Month/Day/Year) Execution Date, if any			of Deriv Secu Acqu (A) o Disp of (D (Instrand !		r osed) r. 3, 4	6. Date Exercisable an Expiration Date (Month/Day/Year) Date Exercisable Expiration Date Date Date		e ar)	Amount of Securities Underlying Derivative Security (Instr. and 4)		ount nber	8. Price c Derivativ Security (Instr. 5)		, [C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

Joel B. Radford

02/21/2008

** 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.