FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to Section 16. Form 4 or Form 5	STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP
obligations may continue. See Instruction 1(b).	Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* BERTELLI JAMES R					<u>M</u>]	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									k all app	olicable)	g Person(s) to I	
(Last) (First) (Middle) 34 POWERS ROAD					3. Date of Earliest Transaction (Month/Day/Year) 08/12/2007								X	belov	,	Other below O & Chairma	´	
(Street) HOLLIS (City)	HOLLIS NH 03049				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Ind Line)				
		Tabl	e I - Nor	า-Deriv	ative	Se	curitie	s Acc	quired,	Dis	posed o	f, or E	Benef	icially	Owne	ed		
1. Title of Security (Instr. 3) 2. Trans Date (Month/				/Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Code (Instr. 5		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				Secur Benef	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A) (D)	or P	rice	Trans	action(s) 3 and 4)		(IIISU. 4)
Common Stock 08/12/				2/2007	2007		F		519]) \$	13.05	8	55,398	D			
		Та									sed of, onvertib				wned			
1. Title of Derivative Security (Instr. 3)	vative Conversion Date Execution rity or Exercise (Month/Day/Year) if any		Date,	Code (Instr.				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		Dei See (Ins	Price of ivative curity str. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

Alex Braverman, Attorney-in-

fact

** Signature of Reporting Person

Date

08/14/2007

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.