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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
obligations may continue. See
Instruction 1(b).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

OMB APPROVAL									
OMB Number:	3235-0287								
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	hours per response:	0.5
-		

1. Name and Address of Reporting Person [*] BERTELLI JAMES R	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC	5. Relationship of Reporting Person(s) to Issuer (Check all applicable)					
(Last) (First) (Middle) 34 POWERS ROAD	[MRCY] 3. Date of Earliest Transaction (Month/Day/Year) 07/31/2008	X Director 10% Owner Officer (give title X Other (specify below) Exec Chairman of the Board					
(Street) HOLLIS NH 03049	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 Form filed by More than One Reporting Person					
(City) (State) (Zip)		reison					

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Code (Transaction Disposed Of (D) (Instr. 3, 4 and Code (Instr. 5)			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	Transaction(s) (Instr. 3 and 4)		(1150.4)
Common Stock	07/31/2008		М		676	A	\$ <mark>6.5</mark>	692,048	D	
Common Stock								12,400(1)	D	

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		5. Nu of Deriv Secu Acqu (A) o Dispo of (D (Instr and S	rities lired r osed) 7. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Incentive Stock Option (Right to buy)	\$6.5	07/31/2008		М			676	09/14/1999	09/14/2008	Common	676	\$0.00 ⁽²⁾	0	D	

Explanation of Responses:

1. This reporting person disclaims beneficial ownership of these securities, and this report shall not be deemed an admission that the reporting person is beneficial owner of these securities for purposes of Section 16 or any other purposes.

2. Field N/A to this transaction but was completed to allow for electronic filing only.

Karl D. Noone, Attorney-infact

08/04/2008

** 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.