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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

OWB APPRC	IVAL
OMB Number:	3235-0287
Estimated average burde	en
hours per response:	0.5

ASLETT MA (Last)	ast) (First) (Middle)		2. Issuer Name and Ticker or Trading Symbol <u>MERCURY COMPUTER SYSTEMS INC</u> [MRCY] 3. Date of Earliest Transaction (Month/Day/Year) 01/28/2008		tionship of Reporting Person(s) to Issuer (all applicable) Director 10% Owner Officer (give title Other (specify below) below) President and CEO		
(Street) CHELMSFORD (City)	MA (State)	01824 (Zip)	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line) X	idual or Joint/Group Fili Form filed by One Re Form filed by More th Person	eporting Person	

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

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1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transa Code (8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 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)		(1130.4)
Common Stock	01/28/2008		Р		1,000	A	\$8.3187	115,285	D	
Common Stock	01/28/2008		Р		2,000	A	\$8.389	117,285	D	
Common Stock	01/28/2008		Р		1,500	A	\$8.466	118,785	D	
Common Stock	01/28/2008		Р		2,000	A	\$8.4955	120,785	D	
Common Stock	01/28/2008		Р		1,500	A	\$8.515	122,285	D	
Common Stock	01/28/2008		Р		1,000	A	\$8.55	123,285	D	
Common Stock	01/28/2008		Р		3,000	A	\$8.6397	126,285	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)		of Deriv Secu Acqu (A) or Dispo of (D)	f Expiration Date (Month/Day/Year) eccurities acquired A) or isposed f (D) nstr. 3, 4		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		Derivative du Security Si (Instr. 5) B O Fe R Ti	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	Ownership Form:	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

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.

* 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.