FORM 4

obligations may continue. See Instruction 1(b).

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Machinatan	D C	20540
Washington,	D.C.	20549

STATEMENT (OF CHANGES IN	BENEFICIAL	OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287

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

Name and Address of Reporting Person* SALINE CRAIG A					MI	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]								(Ched	ck all app Direc	olicable)		Ssuer Owner (specify
(Last) (First) (Middle) 5 FORBES LANE						3. Date of Earliest Transaction (Month/Day/Year) 08/12/2007								X	belov	w) ``	below Development)``
(Street) ANDOV			01810 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Ind Line)	Forn	or Joint/Group Filing (Check Applicable in filed by One Reporting Person in filed by More than One Reporting son				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																		
Date					2A. Deemed Execution Date if any (Month/Day/Yea		n Date,	, Transaction Disposed Code (Instr. 5)		ties Acquired (A) d Of (D) (Instr. 3, 4			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 F	rice	Trans	action(s) 3 and 4)		(
Common Stock 08/				08/12	/2007		F		124 D) ;	\$13.05	28,630		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)	or Exercise Price of Derivative Security (Month/Day/Year) if any (Month/Day/Year) 8)		Transa Code (I	nstr.	Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expiration Exercisable Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of		De Se (In:	Price of rivative curity str. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)			

Explanation of Responses:

Alex Braverman, Attorney-in-

<u>fact</u>

** 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.