FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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

					01 0	CCLIO	11 30(11)	or tire i	TIVESTITIE	iii Co	inpuny Act	01 13	7-10						
1. Name and Address of Reporting Person*  SALINE CRAIG A					ME	2. Issuer Name <b>and</b> Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  MRCY									Relationship of Reporting Person(s) to Issuer (Check all applicable)     Director     10% Owner				
(Last) (First) (Middle) 5 FORBES LANE				3. Da	3. Date of Earliest Transaction (Month/Day/Year) 08/12/2005										Officer (give title elow) Sr. VP, Org	Other (specify below)  Development			
(Street) ANDOVER MA 01810  (City) (State) (Zip)				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								ne) X F	ridual or Joint/Group Filing (Check Applicable  Form filed by One Reporting Person  Form filed by More than One Reporting  Person					
		Tabl	e I - No	n-Deriv	ative	Sec	uritie	s Ac	quired	, Dis	posed o	f, o	r Ben	eficia	ally Ov	vned			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Da					Execution Date,			3. Transaction Code (Instr. 8)  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)				(A) or 3, 4 aı	nd Se Be Ov	Amount of curities eneficially vned Following eported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount (A) or (D)		Price	Tra	ansaction(s) str. 3 and 4)		(Instr. 4)				
Common Stock 08/12/2					2005			A		1,554 <sup>(1)</sup> A S		\$26	.75	1,554	D				
		Та									osed of, onvertib				y Own	ed			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date, Transacti Code (Ins					6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price Derivati Security (Instr. 5	ve derivative Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				C	Code	v	(A)	(D)	Date Evercis	ahle	Expiration	Title	or Nur of	ount					

## **Explanation of Responses:**

1. These shares of restricted stock vest in four equal annual installments commencing on August 12, 2006.

Robert E. Hult, Attorney-in-

<u>fact</u>

08/16/2005

\*\* 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.