FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to	STATEME
Section 16. Form 4 or Form 5	
obligations may continue. See	
Instruction 1(b).	File

INT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Name and Address of Reporting Person* LUND CRAIG						2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]										cable) or (give title	g Person(s) to Iss 10% Ov Other (s		wner	
(Last) (First) (Middle) 3 LANGLEY ROAD						3. Date of Earliest Transaction (Month/Day/Year) 08/16/2005									below) below) VP, Chief Technology Officer				r	
(Street) DURHA (City)	M NH 03824 (State) (Zip)					4. If Amendment, Date of Original Filed (Month/Day/Year)									Form f	rual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person				
1. Title of	Security (Inst		le I - No	n-Deriv		2/	A. Dee		3.	l, Dis		of, or Be	ed (A) or		5. Amou	nt of			7. Nature	
					Day/Yea				Code	(Instr.	(A) or				Benefici	cially Following (I) ed ction(s)		r Indirect istr. 4)	Beneficial Ownership (Instr. 4)	
Common Stock 08/				08/16	5/2005				M		4,900	+ -	\$17	7.25	<u> </u>	1,353		D		
Common	Stock			08/16	5/2005				S ⁽¹⁾		4,900	D	\$26	.592	6,	453		D		
		Т	able II -								osed of converti	•		•	wned					
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/D	n Date,		Transaction Code (Instr.		of		6. Date Exercis Expiration Date (Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		D S (I	B. Price of Derivative Security Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Amou or Numb of Share	er						
Exercise of Non- Qualified Stock	\$17.25	08/16/2005			M			4,900	10/18/2	003	10/18/2009	Common	4,90	0	\$0.00 ⁽²⁾	6,912		D		

Explanation of Responses:

- 1. The sale reported on this Form 4 was effected pursuant to a rule 10b5-1 plan adopted by Mr.Lund On December 15, 2004.
- 2. Field N/A to this transaction but was completed to allow for electronic filing only.

Robert E. Hult, Attorney-infact ** Signature of Reporting Person

08/17/2005

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.