FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

no longer subject to									
4 or Form 5									
ontinue See									

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

Check this box if Section 16. Form obligations may 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

1. Name and Address of Reporting Person* LUND CRAIG						2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									5. Relationship of Rep (Check all applicable) Director Officer (give			son(s) to Iss 10% Ov Other (s	vner	
(Last) (First) (Middle) 3 LANGLEY ROAD						3. Date of Earliest Transaction (Month/Day/Year) 05/16/2005									X below) below) VP, Chief Technology Officer					
(Street) DURHAM NH 03824					4. If										ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person					
(City)	(S	tate)	(Zip)												Form filed by More than One Reporting Person					
		Tab	le I - No	n-Deriv	/ative	Se	curit	ies Ac	quired	, Dis	posed c	of, or Be	nefic	ially	Owned	l				
D				Date	2. Transaction Date (Month/Day/Yea		Execution Date,			ction Instr.		ies Acquire Of (D) (Insi			Beneficially Owned Following		Form (D) o	n: Direct r Indirect sstr. 4)	7. Nature of Indirect Beneficial Ownership	
					Code	v	Amount	(A) or (D)	Price	е	Reporte Transac (Instr. 3	tion(s)			(Instr. 4)					
Common	05/16	05/16/2005						2,450	A	\$26	6.75	75 2,450		D						
Common Stock					05/16/2005				M		2,450	A	\$26	6.86	4,900		D			
Common Stock 05/					5/2005				S ⁽¹⁾		4,900	D	\$26	5.805)		D		
Common Stock 05/16				5/2005				M		4,500	A	\$17	7.25	4,	4,500		D			
		Т	able II -									, or Ben ble secu			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,	4. Transactic Code (Inst 8)		on of I		Expiratio	6. Date Exercisa Expiration Date Month/Day/Yea		7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)		De Se (Ir	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownershi 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 Option	\$17.25	05/16/2005			М			4,900	10/18/20	01	10/18/2009	Common	4,90	0 8	\$0.00 ⁽²⁾	21,612	2	D		
Exercise of Incentive Stock	\$17.25	05/16/2005			M			4,500	10/18/20	01	10/18/2009	Common	4,50	0	50.00 ⁽²⁾	12,888	3	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.

Joseph M. Hartnett, Attorney-

05/17/2005

in-fact ** 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.