## 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

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*      MULLIN SHERMAN N      (Last) (First) (Middle)      665 MANDALAY BEACH ROAD							2. Issuer Name and Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  [ MRCY ]  3. Date of Earliest Transaction (Month/Day/Year)  04/20/2005										of Reportin cable) or (give title	g Pers	10% Ow Other (s below)	vner	
(Street) OXNARD CA 93035-105 (City) (State) (Zip)				51	4. 1	4. If Amendment, Date of Original Filed (Month/Day/Year)  6. Individual or Joint/Group Filing (Check Application)  X Form filed by One Reporting Person  Form filed by More than One Reporting Person													n		
Table I - Non-Deriva  1. Title of Security (Instr. 3)  2. Transa Date (Month/D						ear)	2A. Deemed Execution Date, if any (Month/Day/Year)		3. Tran	3. 4. Transaction Di Code (Instr. 5)		osed of, or Benefic  4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)			or 5. Amoun		nt of es ally Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership	
									Code	e V	Am	ount	(A) (D)	r Pı	rice	Transaci (Instr. 3	tion(s)			(Instr. 4)	
Common Stock 04/20							/2005				3	3,624			\$2	14,224		D			
Common Stock 04/20/						/2005					4	,812	A		\$4	19	,036		D		
		Т	able II - I						uired, s, optic							Owned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deeme Execution if any (Month/Day	Date,	4. Transa Code ( 8)		ı of I		6. Date Exercisal Expiration Date (Month/Day/Year		te	Am Sec Und Der		Title and Amount of Securities Jorderlying Derivative Security Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactic (Instr. 4)	Ownersh Form: Direct (D or Indire (I) (Instr.		Beneficial Ownership ct (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa	ıble	Expirat Date		Γitle	Amo or Num of Shar	ber						
Exercise of Non- Qualified Stock Option	\$2	04/20/2005			M			3,624	07/30/19	996	07/30/2	006	Common	3,6	24	\$0 <sup>(1)</sup>	0		D		
Exercise of Non- Qualified Stock	\$4	04/20/2005			M			4,812	10/20/19	997	10/20/2	007	Common	4,8	12	\$0 <sup>(1)</sup>	0		D		

## **Explanation of Responses:**

1. Field N/A to this transaction but was completed to allow for electronic filing only.

Joseph M. Hartnett, Attorney-

04/21/2005

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.