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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hours per response:	0.5							

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

1. Name and Address of Reporting Person* MULLIN SHERMAN N					<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]								able) r	Perso	10% Ow	ner
(Last) (First) (Middle) 665 MANDALAY BEACH ROAD					3. Date of Earliest Transaction (Month/Day/Year) 07/28/2004							Officer below)	(give title		Other (s below)	pecify	
(Street) OXNAR (City)			93035-105 (Zip)	1	4.1	4. If Amendment, Date of Original Filed (Month/Day/Year)						Line)	Individual or Joint/Group Filing (Check Applicable ine) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
		Tal	ole I - Nor	-Deriv	vativ	e Se	curitie	s Ac	quired, Di	sposed o	f. or Ber	neficially	v Owned				
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)			saction	action 2A. Deemed Execution Date,		3. Transactio Code (Inst	4. Securit	ies Acquire Of (D) (Inst	d (A) or	5. Amour Securitie Beneficia Owned F	s ally ollowing	Form:	Direct I Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership			
							Code V	Amount	(A) or (D)	Price	Reported Transact (Instr. 3 a	ion(s)			(Instr. 4)		
									uired, Disp s, options,				Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		3A. Deemed Execution D if any (Month/Day/	Code (In				Expiration Date (Month/Day/Yearties red sed (Instr.		e	of Securities		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	ly	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership t (Instr. 4)
					Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
Non- Qualified Stock Option (Right to	\$23.46	07/28/2004			A		12,000		07/28/2004 ⁽¹⁾	07/28/2014	Common	12,000	\$0 ⁽²⁾	12,000)	D	

Explanation of Responses:

- 1. This option vests as to 6,000 shares on each of July 28, 2004 and 2005.
- 2. Field N/A to this transaction but was completed to allow for electronic filing only.

<u>Joseph M. Hartnett, Attorney-</u> in-fact

07/29/2004

** 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.