FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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											all applicable) Director		ng Person(s) to Issu		wner
(Last) 665 MAI	(Fii NDALAY B	rst) (BEACH ROAD	Middle)				of Ear 2004		Transa	saction (Month/Day/Year)							Officer (give title below)		Other below		specify
(Street) OXNAR			93035-10 (Zip)	51	4. If	Am	endme	ent, I	Date of	of Original Filed (Month/Day/Year)							Individual or Joint/Group Filing (Check Applical Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(Oity)	(0)		le I - Nor	n-Deriv	ative	Se		ities	S Aca	uired.	Disi	nosed o	of. o	r Be	nefic	ially	Owne	-d			
1. Title of Security (Instr. 3) 2. Tran			2. Transa Date			2A. Deemed Execution Date,		3. Transaction Code (Instr.		4. Securities Acquired (A) Disposed Of (D) (Instr. 3,				or	5. Amount of Securities Beneficially Owned Following Reported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
											v	Amount		(A) or (D)		rice Trans		ted action(s) 3 and 4)			(Instr. 4)
Common Stock				08/13/2004						S		1,929		D	\$2	5.32	13,671		D		
Common Stock				08/13/2004						S		50		D	\$2	5.33	13,621		D		
Common Stock				08/13/2004		1			S		300		D	\$2	5.34	13,321		D			
Common Stock				08/13/2004		ļ.			S		200		D	\$25.35		13,121		D			
Common Stock				08/13	/2004	1				S		200		D	\$2	5.36	12,921		D		
Common Stock (08/13	/2004	!				S		300 D \$		\$2	5.39	12,621		D			
Common Stock 08/13					/2004	1				S		2,021	2,021 D		\$	25.4	10,600		D		
		Ta	able II - I)							•		sed of, onvertib				-	wned				
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/Da	Date,		Transactior Code (Instr		n of E			xercis n Date ay/Ye		7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)		f s g	Deri Seci (Inst		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Owner Form: Direct or Indi (I) (Ins	D) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Codo	Code		,,		Date Evercisal		Expiration	Title	O N O	umber						

Explanation of Responses:

Joseph M. Hartnett, Attorneyin-fact

08/16/2004

** Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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.

^{*} 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).