SEC Form 3

FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL
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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

Noone Karl	. Date of Event equiring Statem Month/Day/Year) 5/27/2008	ient T	3. Issuer Name <b>and</b> Ticker or Trading Symbol <u>MERCURY COMPUTER SYSTEMS INC</u> [ MRCY ]						
(Last) (First) (Middle) 199 RIVERNECK ROAD			4. Relationship of Reporting Perso (Check all applicable) Director	on(s) to Issuer 10% Owner		5. If Amendment, Date of Original Filed (Month/Day/Year)			
			X Officer (give title below)	Other (spe below)	cify	6. Individual or Joint/Group Filing (Check Applicable Line)			
(Street)			VP, Controller &	: CAO		X Form filed by One Reporting Person			
CHELMSFORD MA 01824							Form filed by Reporting P	y More than One erson	
(City) (State) (Zip)									
Table I - Non-Derivative Securities Beneficially Owned									
1. Title of Security (Instr. 4)			Amount of Securities eneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)		4. Nature of Indirect Beneficial Ownership (Instr. 5)			
No Securities Beneficially Owned			0	D					
Table II - Derivative Securities Beneficially Owned           (e.g., puts, calls, warrants, options, convertible securities)									
1. Title of Derivative Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securi Underlying Derivative Securit			ersion C ercise F	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
	Date Exercisable	Expiration Date	Title	Amount or Number of Shares	Derivat Securit	ive	Direct (D) or Indirect (I) (Instr. 5)		
Explanation of Responses:			Karl	D. Noone			06/06/20	08	

Karl D. Noone \*\* Signature of Reporting Person

Date

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

 $^{\ast}$  If the form is filed by more than one reporting person, see Instruction 5 (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.