FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-02									

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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

1. Name and Address of Reporting Person* <u>Muellner George K</u>				<u>M</u>	2. Issuer Name <b>and</b> Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  [ MRCY ]								(Ch	neck all app X Direc	olicable) ctor		Owner	
(Last) (First) (Middle) 201 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 10/17/2012									Offic belov	er (give title w)	Other below	(specify )	
(Street) CHELMS (City)	SFORD M.		)1844 Zip)		4. If	Ame	ndment	, Date c	of Original	Filed	(Month/Da	ay/Year	)	Lin	e) <mark>X</mark> Forn	n filed by One n filed by Mor	Filing (Check A Reporting Per re than One Re	son
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3)  2. Transact Date (Month/Date					Execution Date,		Code (Instr.   5)				Securi Benefi Owne	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership				
									Code	v	Amount (A) (D)		() or ()	Price		action(s) 3 and 4)		(Instr. 4)
Common Stock 10/17/2					//2012	2012		A		10,327(1)		A	\$0.0	0 2	.7,537	D		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	Execution Date, 17 Year) if any (Month/Day/Year) 8			saction le (Instr. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisable and Expiration Date (Month/Day/Year)  Date Expiration Date Expiration Date		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)  Amoun or Numbe of Title Shares		unt	8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		

## **Explanation of Responses:**

1. These shares of restricted stock vest in two equal installments on each of October 17, 2012 and 2013.

Charles A. Speicher, Attorney-10/18/2012 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.

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