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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

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

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1. Name and Add	1 0	Person*	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC		5. Relationship of Reporting Person(s) to Issuer (Check all applicable)				
<u>Vitto Vincent</u>			[MRCY]	X	Director	10% Owner			
(Last) 201 RIVERNE	(First) ECK ROAD	(Middle)	3. Date of Earliest Transaction (Month/Day/Year) 10/17/2012		Officer (give title below)	Other (specify below)			
(Street)		01024	4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indiv Line)	ividual or Joint/Group Filing (Check Applical Form filed by One Reporting Person				
CHELMSFOR	(State)	01824 (Zip)			Form filed by More th Person				
		Table I - Non-D	erivative Securities Acquired, Disposed of, or Benef	icially	Owned				

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		Disposed Of (D) (Instr. 3, 4 and			5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(11311.4)
Common Stock	10/17/2012		Α		10,327(1)	Α	\$0.00	28,203	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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		n of		6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

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

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** 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.