FORM 4

obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549
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Check this box if no longer subject to	STATEMENT OF CHANGES IN BENEFICIAL
Section 16. Form 4 or Form 5	
- Indianation and a second sec	

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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

Name and Address of Reporting Person* SKALABRIN MARK F					2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]										Check	all app	ship of Reporting P applicable) irector fficer (give title		Person(s) to Issuer 10% Owner Other (specify	
(Last) (First) (Middle) 175 CRANE NECK ROAD				3. Date of Earliest Transaction (Month/Day/Year) 09/05/2007									X	belov		anced S	below)			
(Street) WEST NEWBURY MA 01985				4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								. Indivi ine) X	,						
(City)	(City) (State) (Zip) Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)				2. Trans	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transa Code (3. 4. Securit Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			or 5. A 4 and Seconds		ount of ties cially d Following	6. Owne Form: D (D) or In (I) (Instr	irect direct	7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock				09/05/2007				Code S ⁽¹⁾	v	Amount 500	()	D \$11.2		•	Transaction(s) (Instr. 3 and 4) 25 88,630		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. Deemde Execution if any (Month/Da	Date,		ransaction of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Expiratio (Month/D	Date Exercisable and Expiration Date (Month/Day/Year) Expiration Date Exercisable		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe of Title Shares		ount	nt er		9. Number o derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Own Forn Dire or In (I) (II	ership n: ct (D) direct nstr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

1. The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by Mr. Skalabrin on May 10, 2007.

Craig Barrows, Attorney-in-

fact

** Signature of Reporting Person

09/05/2007

Date

OWNERSHIP

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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