FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

## STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPRO	OVAL					
OMB Number:	3235-0287					
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hours per response:	0.5					

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*  SKALABRIN MARK F						2. Issuer Name and Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  MRCY									5. Relationship of Reporting Person(s) to Issuer (Check all applicable)  Director 10% Owner					wner
-															X	X Officer (give title below)			Other (specify below)	
(Last) (First) (Middle) 175 CRANE NECK ROAD						3. Date of Earliest Transaction (Month/Day/Year)									Sr VP & GM ACS					
173 CRAIVE NECK ROAD					10/	10/05/2007														
(Silect)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									6. Individual or Joint/Group Filing (Check Applicable Line)					
WEST NEWBU	RY M.	1A 01985													X Form filed by One Reporting Person					on
															Form filed by More than One Reporting Person				orting	
(City)	(St	ate) (2	Zip)																	
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3)  2. Transac Date (Month/Date)						Execution Date		n Date,	Transaction Dis		Disposed	curities Acquired (A) osed Of (D) (Instr. 3,			4 and Secu Bene Own		cially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership
									Code	v	Amount		(A) or (D)	Price	•	Transa	Reported Fransaction(s) Instr. 3 and 4)			(Instr. 4)
Common Stock 10/05/						/2007					500		D	\$11	.37	98,130		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. Deem Execution if any (Month/Da	Date,	Code (Instr.		n of		6. Date Exercisable an Expiration Date (Month/Day/Year)		e	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		str. 3	8. Price Derivat Securit (Instr. 5		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4	(D) rect	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)		Date Exercisal		Expiration Date	Title	or Nui of	ount mber ares						

## **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.

Alex Braverman, Attorney-in-

<u>fact</u>

\*\* Signature of Reporting Person

Date

10/05/2007

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.