FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
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٦.	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				<u>M</u>]	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									Check	all app	olicable)	g Person(s) to I 10% (Other		
(Last) (First) (Middle) 175 CRANE NECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 04/25/2005									X Officer (give title Other (specify below) VP, OEM Solutions Group					
(Street) WEST NEWBU	RY M.	MA 01985				4. If Amendment, Date of Original Filed (Month/Day/Year)									Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
(City)	(St	ate) (2	Zip)			Pelsuii													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transact Date (Month/Day)					Execution Date						Securities Acquired (A) posed Of (D) (Instr. 3, 4			and 5) Secu Bene		icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(A (D	A) or D) Price			Transaction(s) (Instr. 3 and 4)			(
Common Stock 04/25				′2005				S ⁽¹⁾		1,000		D \$26.3		382 43,752 ⁽²⁾		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)	Derivative Conversion Date Execution Date Security or Exercise (Month/Day/Year) if any		n Date, ay/Year) -	4. Transaction Code (Instr. 8)		n of	rities ired r osed) : 3, 4	6. Date Expirati (Month/)	on Dai	ar) Securities Underlying Derivative Security (Instant 4) Amoor Nun of					9. Number of derivative Securities Beneficially Owned Following Reported Transactions (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 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 January 28, 2005.
- 2. Includes 1,896 shares acquired by the reporting person under the Mercury Computer Systems, Inc. Employee Stock Purchase Plan.

Joseph M. Hartnett, Attorneyin-fact

04/26/2005

** 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.