FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL								
OMB Number: 3235-02								
Estimated average burden								
hours per response.	0.5							

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									Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					
(Last) (First) (Middle) 175 CRANE NECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 07/25/2005									X Officer (give title Other (specify below) VP, OEM Solutions Group					
(Street) WEST NEWBU	RY M.	Α ()1985		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. 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) (.	Zip)																
		Tabl	e I - Noi	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Ben	eficia	ally O	wned			
1. Title of Security (Instr. 3) 2. Transa Date (Month/Date)						Execution Date,		Transaction Disposed Code (Instr. 5)			ties Acquired (A) d Of (D) (Instr. 3, 4			nd S B O	. Amount of ecurities eneficially wned Foll eported	,	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
										v	Amount		A) or D)	Price	т	ransaction	n(s) i 4)		(111511.4)
Common Stock 07/2				07/25	5/2005				S ⁽¹⁾		1,000	D \$		\$29	32 41,189 ⁽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)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	Date, Transaction Code (Ins				6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		ount	8. Price Derivat Securit (Instr. !	derivativ Securitie Securitie Benefici Owned Followin Reporte	urities eficially ned owing orted isaction(s	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	Nur of Sha	nber res					

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
- $2.\ Includes\ 437\ shares\ purchased\ through\ the\ company's\ Employee\ Stock\ Purchase\ Plan.$

Joseph M. Hartnett, Attorney-

in-fact

** Signature of Reporting Person

Date

07/26/2005

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.