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

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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]									heck all a	ship of Reportir applicable) rector ficer (give title	10	to Issuer % Owner her (specify	
(Last) 175 CRA	,	(First) (Middle) ECK ROAD				3. Date of Earliest Transaction (Month/Day/Year) 08/12/2005								1	VP, OEM Solutions Group				
(Street) WEST NEWBU (City))1985 Zip)		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					
		Tabl	e I - No	n-Deriv	/ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	eficia	ally Ow	ned			
1. Title of Security (Instr. 3)				2. Transaction Date (Month/Day/Year)		ur) E	2A. Deemed Execution Date, if any (Month/Day/Year)				ties Acquired (A) I Of (D) (Instr. 3, 4			id Sec Ber Owi	mount of urities leficially ned Following lorted	6. Ownershi Form: Direc (D) or Indire (I) (Instr. 4)	of Indirect		
										v	Amount	(<i>A</i>	N) or D)	Price	Trai	nsaction(s) tr. 3 and 4)		(111511.4)	
Common Stock					08/12/2005				A		4,500	1)	Α	\$26	.75	45,689	D		
Common Stock					08/12/2005				A		2,098	2)	Α	\$26	.75	5 47,787			
		Та									sed of, onvertib				y Owne	d			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution Da if any (Month/Day/Y	n Date,	4. Transaction Code (Instr.		n of		6. Date Exercisable a Expiration Date (Month/Day/Year)		e	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	derivative Securities	Ownersi Form: Direct (Dor Indire (I) (Instr.	Beneficial Ownership ct (Instr. 4)	
			Code	e V (A) (D)		Date Expiration		Expiration Date	Title	Amo or Nun of Sha									

Explanation of Responses:

- 1. These shares of restricted stock vest in full on August 12, 2009.
- 2. These shares of restricted stock vest in four equal annual installments commencing on August 12, 2006.

Robert E. Hult, Attorney-in-

fact

** Signature of Reporting Person Date

08/16/2005

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.