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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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

							. ,				<u> </u>										
1. Name and Address of Reporting Person* <u>SKALABRIN MARK F</u>					M	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC											p of Reportin blicable) ctor	g Person	(s) to Is		
(Last) (First) (Middle) 175 CRANE NECK ROAD					. [N	[MRCY]										Office belov			Other (below)	(specify	
						3. Date of Earliest Transaction (Month/Day/Year) 08/12/2007										VP & GM Advanced Solutions					
(Street) WEST					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)										6. Individual or Joint/Group Filing (Check Applicable Line)					
NEWBU	RY M.	Α ()1985												X	Form filed by One Reporting Person					
																Form filed by More than One Reporting Person					
(City)	(St	ate) (Zip)																		
		Tabl	e I - Noi	ո-Deriv	ative	Se	curitie	s Ac	quired,	Dis	posed o	f, o	r Ber	efici	ally	Owne	ed				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D.				th/Day/Year) i		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Dis Code (Instr. 5)		Disposed	Securities Acquired (A) isposed Of (D) (Instr. 3,			4 and S		Securities F Beneficially (Owned Following (rship irect direct 4)	7. Nature of Indirect Beneficial Ownership		
								Code	v	Amount		(A) or (D)	Price	•	Transa	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 08/12/2					2/2007	/2007		F		167		D	\$13	3.05	89,130		D				
		Та									sed of, onvertib					vned		,			
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, Transacti Code (Ins					6. Date E Expiration (Month/E	on Dat		7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)		J				Owner Form: Direct or Indi (I) (Ins	n: ct (D) direct	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exercisa		Expiration Date	Title	or Nu of	ımber							

Explanation of Responses:

Alex Braverman, Attorney-in-

fact

** Signature of Reporting Person

08/14/2007 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.