Instruction 1(b).

FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Check this box if no longer subject to	ST
Section 16. Form 4 or Form 5	
obligations may continue. See	

## TATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

5. Relationship of Reporting Person(s) to Issuer

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

2. Issuer Name and Ticker or Trading Symbol

1. Name and Address of Reporting Person*  SKALABRIN MARK F							2. Issuer Name and Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC [  MRCY ]											tionship of Reporting all applicable) Director Officer (give title		10% Ov	vner	
(Last) (First) (Middle) 175 CRANE NECK ROAD						3. Date of Earliest Transaction (Month/Day/Year) 07/13/2006											below) VP,	OEM So	olutio	below) ns Group		
(Street) WEST NEWBU	•					4. If Amendment, Date of Original Filed (Month/Day/Year) 07/14/2006										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)	(S	tate)	(Zip)																			
		Tak	le I - Nor	-Deriv	/ativ	e Se	curit	ties Ac	quir	ed, D	isp	osed o	of, o	r Ber	neficia	lly C	Owned					
1. Title of Security (Instr. 3)  2. Trans Date (Month.					_	Execu	eemed Ition Date h/Day/Yea	´   c	ransaci ode (In		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				nd	5. Amount of Securities Beneficially Owned Following Reported		Form (D) o	n: Direct r Indirect sstr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									C	ode	v	Amount		(A) or (D)	Price	I ·	Transact (Instr. 3 a	tion(s)			(11150.4)	
Common Stock 07/13					3/200	6				M		480 A		\$2	2	53,510			D			
Common Stock			07/13	07/13/2006					M		11,200 A		\$2	2	64,710(1)			D				
			Table II -									sed of, onvertil				y Ov	vned					
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution I if any (Month/Day	Date,	4. Transaction Code (Instr. 8)		of Deri Sec Acq (A) o Disp of (I	umber ivative urities juired or oosed D) (Instr. and 5)	Expir	ate Exer ration [ nth/Day	Date	of Ur De		7. Title and Amour of Securities Underlying Derivative Securit (Instr. 3 and 4)		De Se	Price of Derivative Security Instr. 5)	9. Numbe derivative Securities Beneficia Owned Following Reported Transacti (Instr. 4)	e S Illy	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exerc	cisable		xpiration ate	Title		Amount or Number of Shares							
Incentive Stock Option (Right to buy)	\$2	07/13/2006			M			480	07/3	80/2000	07	7/30/2006	Corr	nmon	480	\$	0.00 <sup>(2)</sup>	0		D		
Incentive Stock Option	<b>\$</b> 2	07/13/2006			М			11,200	09/0	9/2001	09	9/09/2006	Com	nmon	11,200	\$	0.00 <sup>(2)</sup>	0		D		

## **Explanation of Responses:**

buy)

- 1. Includes 436 shares and 807 shares purchased through the Mercury Computer Systems, Inc. employee stock purchase plan in December 2005 and June 2006 respectively.
- 2. Field N/A to this transaction but was completed to allow for electronic filing only.

Craig Barrows, Attorney-in-07/17/2006 <u>fact</u>

\*\* 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.