FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL									
OMB Number:	3235-0287								
Estimated average burden									
hours per response:	0.5								

U obligati	ons may contir tion 1(b).							es Exchan			34		hou	urs per	response:	0.5		
Name and Address of Reporting Person* SKALABRIN MARK F				or Section 30(h) of the Investment Company Act of 1940 2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									Check all app Direc	olicable) ctor er (give title	10% C		Owner (specify	
(Last) (First) (Middle) 175 CRANE NECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 08/24/2005									VP, OEM Solutions Group				
(Street) WEST NEWBU (City))1985 Zip)		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					
		Tabl	e I - Noi	n-Deriv	ative S	Securiti	es Ac	quired,	Dis	posed o	f, or	Ben	eficia	ally Own	ed			
1. Title of Security (Instr. 3) 2. Trans Date (Month/)				Exec Day/Year) if any		med on Date, Day/Year	Code (Instr.						nd Secur Benef Owne	Amount of ecurities eneficially wned Following eported		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									v	Amount	(1	A) or D)	Price	Trans	nsaction(s) str. 3 and 4)			(
Common Stock 08/24						4/2005		S ⁽¹⁾		1,000		D	\$25	.75 4	16,787		D	
		Та								sed of, onvertib				y Owned				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security		Execution Date, if any		4. Transact Code (In: 8)	ion of str. Deri Sec Acq (A) Disp of (I	oosed D) tr. 3, 4	6. Date E: Expiration (Month/D	7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	re es ally g	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)		
					- 1		1 1					or Nur	nber					

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

Joseph M. Hartnett, Attorneyin-fact

of Shares

Title

Expiration Date

Date Exercisable

08/24/2005

** 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).

Code

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, see Instruction 6 for procedure.

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