FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL									
OMB Number:	3235-0287								
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0.5

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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

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*  HULT ROBERT					MI	2. Issuer Name and Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC  [ MRCY ]									neck all ap Dire V Offic	plicable) ctor cer (give title		Owner (specify
(Last) 201 RIVI	Last) (First) (Middle) 201 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 06/08/2010									beio	,	below) and Treasurer	)
(Street) CHELMSFORD MA 01824					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)							Lin	e) X Fori Fori	Form filed by One Reporting Person Form filed by More than One Reporting Person			
(City)	(St		Zip)		<u> </u>									<u> </u>				
		Iabi	e I - No	n-Deriv	ative	Sec	uritie	S AC	quirea,	, DIS	posed o	t, or I	3ene	eticiai	iy Own	ea		
1. Title of Security (Instr. 3)  2. Transact Date (Month/Day)					Execution Date,		Date,	3. Transaction Code (Instr. 8) 4. Securiti Disposed						5) Secui Bene	ficially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							Code	v	Amount	(A) (D)	or	Price	Trans	action(s) 3 and 4)		(		
Common Stock 06/08/2					2010	:010		S		1,050(1)	) D \$		\$10.3	32	66,847	D		
		Та									osed of, onvertib				Owned	l		
Derivative Conversion Date Executity Or Exercise (Month/Day/Year) if an			3A. Deer Execution if any (Month/E	n Date,		ransaction ode (Instr.		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		Exerci on Da Day/Yo		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)			3. Price of Derivative Security (Instr. 5)		Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisa	able	Expiration Date	Title	or Num of Sha	nber				

## Explanation of Responses:

1. The disposition of shares was to cover the required tax withholding triggered by the vesting of restricted stock.

Alex A. Van Adzin, Attorneyin-fact

06/09/2010

\*\* Signature of Reporting Person

Date

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

- $^{\star}$  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.