FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL								
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	Check this box if no longer subject to
١	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

1. Name and Address of Reporting Person* <u>HULT ROBERT</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	ng Pers	10% C	wner
(Last) (First) (Middle) 201 RIVERNECK ROAD						3. Date of Earliest Transaction (Month/Day/Year) 08/17/2009										cer (give tille ow) Chief Financial		Other (specify below) al Officer	
(Street) CHELMSFORD MA 01824 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) X Fo	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person			
		Tabl	e I - Noi	n-Deriv	ative	Sec	curitie	s Acc	quired,	Dis	posed o	f, or	Bene	ficia	ally Ow	ned			
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)						Execution Date			Transaction Disposed Of Code (Instr. 5)			ties Acquired (A) I Of (D) (Instr. 3, 4			d Sed Ber Ow	mount of urities eficially ned Following	Form (D) or	nership : Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership
										v	Amount		A) or O)	Price	Tra	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)
Common Stock 08/17/2						2009		A		42,000(1)		A \$0.0		00	67,897		D		
	Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deemed Execution E if any (Month/Day	Date,	4. Transa Code (8)				6. Date E Expiratio (Month/D	n Dat	е	7. Title and Amount of Securities Underlying Derivative Security (Inst and 4)			8. Price of Derivative Security (Instr. 5)		Or Fo Di or (I)	o. wnership orm: irect (D) r Indirect) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercisal		Expiration Date	Title	or Num of Sha						

Explanation of Responses:

 $1.\ These\ shares\ of\ restricted\ stock\ vest\ in\ four\ equal\ annual\ installments\ beginning\ August\ 17,\ 2010.$

Karl D. Noone, Attorney-in-

fact

** Signature of Reporting Person Date

08/18/2009

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.