FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Check this box if no longer subject to 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* HULT ROBERT (Last) (First) (Middle) 18 POOR FARM ROAD						2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] 3. Date of Earliest Transaction (Month/Day/Year) 08/12/2009										Direct Office below	licable) tor er (give title v)	1 C b	Person(s) to Issuer 10% Owner Other (specify below) cial Officer	
(Street)	Street) HARVARD MA 01451					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					
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date					e Exe onth/Day/Year) if a			A. Deemed xecution Date, any Month/Day/Year)		Transaction Code (Instr. 5		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)			4 and Securi Benefi		ties cially I Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
									Code	v	Amount	(A (C	() or ()	Price	. 17	Transaction(s) (Instr. 3 and 4)				
Common Stock 08					/12/2009				F		199		D	\$9.96		28,279		D		
Common Stock 08.					08/12/2009				F		2,382	2	D	\$9.96		25,897		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. Deeme Execution if any (Month/Da	Date,	Date, Transaction		on of		6. Date E Expiratio (Month/D	•	7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)				vative urity tr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	D) ect	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
						v			Date Exercisal	Date Exercisable D		or Numbe of Title Shares								

Explanation of Responses:

Alex A. Van Adzin, Attorney-

08/13/2009

in-fact

** 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.