FORM 4

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

					or Se	ection 30	O(h) of the	Investme	nt Cor	npany Act	of 1940)					
1. Name and Address of Reporting Person* HULT ROBERT				2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]							(Ch	eck all app Direc	olicable)	Person(s) to Issuer 10% Owner Other (specify			
(Last) (First) (Middle) 201 RIVERNECK ROAD				3. Date of Earliest Transaction (Month/Day/Year) 08/16/2010								SVP, CFO and Treasurer					
(Street) CHELM (City)	SFORD M		4. If Amendment, Date of Original Filed (Month/Day/Year) (Zip)							Line	Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person						
		Tabl	le I - No	n-Deriv	ative \$	Secur	ities Ac	quired,	Dis	posed o	f, or	Bene	ficial	ly Owne	ed		
1. Title of Security (Instr. 3) 2. Transac Date (Month/Date)					Execu	2A. Deemed Execution Date, f any Month/Day/Year)	Transaction Disposed Code (Instr. 5)		ties Acquired (A) of Of (D) (Instr. 3, 4			Secur Benef	icially d Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	() ()	A) or D)	Price	Transaction(s) (Instr. 3 and 4)			(11041.4)
Common Stock 08/16/2					/2010	010 A 30,500 ⁽¹⁾ A		A	\$0.0	00 97,347		D					
		Та								sed of, onvertib				Owned			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	n Date, Transac		tion or	. Number f terivative ecurities .cquired A) or oisposed f (D) nstr. 3, 4 nd 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)			Amount of De Securities Se		8. Price of Derivative Security Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Date Exercisable

Expiration Date

Explanation of Responses:

1. These shares of restricted stock vest in four equal annual installments beginning August 16, 2011.

Robert E. Hult 08/17/2010

** Signature of Reporting Person Date

of Shares

Title

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.

LIMITED POWER OF ATTORNEY FOR MERCURY COMPUTER SYSTEMS, INC. SECTION 16(a) FILINGS

Know all by these presents, that the undersigned hereby constitutes and appoints each of the Chief Financial Officer, the Controller, and the Chief Legal Officer of Mercury Computer Systems, Inc. (currently Robert E. Hult, Stephen Sarno (interim), and Gerald M. Haines II), acting singly, the undersigned's true and lawful attorney-in-fact to:

- (1) prepare, execute in the undersigned's name and on the undersigned's behalf, and submit to the U.S. Securities and Exchange Commission (the "SEC") a Form ID, including amendments thereto, and any other documents necessary or appropriate to obtain codes and passwords enabling the undersigned to make electronic filings with the SEC of reports required by Section 16(a) of the Securities Exchange Act of 1934, as amended (the "Exchange Act"), or any rule or regulation of the SEC;
- (2) execute for and on behalf of the undersigned, in the undersigned's capacity as an officer, director and/or shareholder of Mercury Computer Systems, Inc. (the "Company"), Forms 3, 4 and 5, and amendments thereto, in accordance with Section 16(a) of the Securities Exchange Act and the rules thereunder;
- (3) do and perform any and all acts for and on behalf of the undersigned which may be necessary or desirable to complete and execute any such Form 3, 4 or 5, or amendments thereto, and timely file such form with the SEC and any stock exchange or similar authority; and
- (4) take any other action of any type whatsoever which, in the opinion of such attorney-in-fact, may be necessary or desirable in connection with the foregoing authority, it being understood that the documents executed by each such attorney-in-fact on behalf of the undersigned pursuant to this Limited Power of Attorney shall be in such form and shall contain such terms and conditions as such attorney-in-fact may approve, provided, however, that the undersigned does not grant to each such power-of-attorney the right to engage in any transactions involving the securities of the Company on behalf of the undersigned, including without limitation, the right to purchase or sell any securities of the Company.

The undersigned hereby grants to each such attorney-in-fact full power and authority to do and perform any and every act and thing whatsoever requisite, necessary, or proper to be done in the exercise of any of the rights and powers herein granted, as fully to all intents and purposes as the undersigned might or could do if personally present, with full power of substitution or revocation, hereby ratifying and confirming all that each such attorney-in-fact, or each such attorney-in-fact's substitute or substitutes (any such substitute also being referred to herein as an "attorney-in-fact"), shall lawfully do or cause to be done by virtue of this Limited Power of Attorney and the rights and powers herein granted. The undersigned acknowledges that each attorney-in-fact, in serving in such capacity at the request of the undersigned or such attorney-in-fact, is not assuming, nor is the Company assuming, any of the undersigned's responsibilities to comply with Section 16 of the Exchange Act.

The undersigned agrees that each such attorney-in-fact shall not be liable for any error of judgment or for any act done or omitted to be done or for any mistake of fact or law except for each such attorney-in-fact's own bad faith, and the undersigned agrees to indemnify and to hold each such attorney-in-fact harmless against any loss, claim, damage, liability or cost incurred on each such attorney-in-fact's part arising out of or in connection with acts undertaken or omitted to be taken as an attorney-in-fact hereunder.

This Limited Power of Attorney shall remain in full force and effect until the undersigned is no longer required to file Forms 3, 4, and 5 with respect to the undersigned's holdings of and transactions in securities of Mercury Computer Systems, Inc., unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact. This Limited Power of Attorney may be filed with the SEC as a confirming statement of the authority granted herein.

IN WITNESS WHEREOF, the undersigned has caused this Limited Power of Attorney to be executed as of this 11th day of August, 2010.

/s/ Robert E. Hult