FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

or Section So(n) or the investment Company Act or 1940																		
1. Name and Address of Reporting Person THIBAUD DIDIER M C					2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]								Relationship of Reporting Person(s) to Issuer (Check all applicable) Director					
												l x	Officer (give title	helow)			ecify below)	
(Last) (2, PLACE DE PADOUE	(First) (Middle)				3. Date of Earliest Transaction (Month/Day/Year) 06/10/2008							^	Sr. VP, Defense & Commercial					
(Street)					4. If Amendment, Date of Original Filed (Month/Day/Year)						6. Individ	6. Individual or Joint/Group Filing (Check Applicable Line)						
BRIIS SOU	BRIIS SOU 91640										X	X Form filed by One Reporting Person						
(City)	State)	(Zi	p)									Form filed by More than One Reporting Person						
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																	
1. Title of Security (Instr. 3)			Date		cution Date,	3. Transaction Code (Instr. 8) 4. Securi 3, 4 and			ties Acquired (A) or Dispos 5)	ed Of (D) (Instr.	D) (Instr. 5. Amount of Securit Beneficially Owned F Reported Transaction		6. Ownership F Direct (D) or Inc Instr. 4)	D) or Indirect (I)	7. Nature of Indirect Beneficial Ownership (Instr.			
			(WOITH/Da) if any (Month/Day/Year)	Code V	An	nount	(A) or (D)	Price	(Instr. 3 and 4)	(1)	(111501.4)		4)			
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	tercise (Month/Day/Year) of vative	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transac (Instr. 8)	tion Code	Securities	of Derivative Acquired (A) or f (D) (Instr. 3, 4	6. Date Exercisable and Expiration Date (Month/Day/Year)		ind	7. Title and Amount of Securities Und Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficiall Owned Following	Form: (D) or I (I) (Ins	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expir Date		Title	Amount or Number of Sh	ares	Reported Transactio (Instr. 4)				
Non-Qualified Stock Option (Right to buy)	\$8.62	06/10/2008		A		31,000		06/10/2009(1) 06/10	/2015	Common	31,000	\$0.00 ⁽²⁾	31,000	0	D		

- This option vests in four equal installments beginning on June 10, 2009.
 Field N/A to this transaction but was completed to allow for electronic filing only.

Karl D. Noone, Attorney-in-fact ** Signature of Reporting Person

06/12/2008

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.

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 Robert E. Hult, Senior Vice-President and Chief Financial Officer, Kai

(1) 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

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

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 at 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, necess

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 mistary. 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 and transactions in securities of the Company, unless earlier revoked by the undersigned in a signed writing delivered to the foregoing attorneys-in-fact. This Limited Power of Attorney to be executed as of this 9 day of June, 2008.

/s/ Didier Thibaud

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