FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

l	OMB APPRO	VAL					
	OMB Number:	3235-0287					
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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).

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* THIBAUD DIDIER M C							2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									all applicable) Director Officer (give title		ng Person(s) to Issu 10% Ow Other (s		r
(Last) (First) (Middle) 2, PLACE DE PADOUE						3. Date of Earliest Transaction (Month/Day/Year) 02/20/2009										below) Sr. VP, Defens		below) 2 & Commercial		
(Street) BRIIS SO	RIIS SOU 91640				4. If	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					n/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)		Transaction Disposed Code (Instr. 5)		ities Acquired (A) d Of (D) (Instr. 3, 4			and Secur Benef		es ially Following	6. Ownersh Form: Direc (D) or Indire (I) (Instr. 4)	t of In ct Bene Own	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
									Code	v	Amount	(1)	(A) or (D) Price		Transac		ction(s)		(5	···· - ,
Common	02/20	/20/2009				F		1,695	5 D		\$ 6 .	49	32,366		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	tercise (Month/Day/Year) if any (Month/Day/Year)			4. Transaction Code (Instr. 8)		of		6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)					9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	nip of In Bend O) Own ct (Inst	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code V		v	(A)	(D)			Expiration Date	of		nber res						

Explanation of Responses:

Robert E. Hult, Attorney-in**fact**

** Signature of Reporting Person

Date

02/23/2009

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.