FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

OMB APPROVAL										
OMB Number:	3235-028									
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0.5

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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).

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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				<u> </u>	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]					[(Che	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title Other (specify					
(Last) 2, PLAC	Last) (First) (Middle) , PLACE DE PADOUE				3. Date of Earliest Transaction (Month/Day/Year) 06/01/2006					2	X Officer (give title below) Other (spe below) Sr. VP, Defense & Commercial				·	
(Street) BRIIS So	OU		91640		4. If Amendment, Date of Original Filed (Month/Day/Year)				y/Year)	Line	Form filed by One Reporting Person Form filed by More than One Reporting					
(City)	(Si	-	(Zip)									Person				
	Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned															
Date			2. Transacti Date (Month/Day	Execution Date,		Code (Inst	Transaction Disposed Of (D) (Instr. 3, 2) Code (Instr. 5)		d (A) or tr. 3, 4 and	5. Amour Securitie Beneficia Owned F Reported	es Form ally (D) of Following (I) (II		Direct I Indirect E str. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code V	Amount	(A) or (D)	Price	Transact (Instr. 3 a	ion(s)			
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																
Derivative Conversion Date Execution Date, T Security or Exercise (Month/Day/Year) if any			Code	insaction of I		Expiration Date (Month/Day/Year) Of Un		7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	Beneficial Ownership (Instr. 4)		
				Code	e V	(A)		Date Exercisable	Expiration Date	Title	Amount or Number of Shares					
NQ Stock Option (Right to	\$16.36	06/01/2006		A		77,000		06/01/2009 ⁽¹⁾	06/01/2016	Common	77,000	\$0.00 ⁽²⁾	77,000		D	

Explanation of Responses:

- 1. This option vests as to 100% of the shares commencing on June 1, 2009.
- 2. Field N/A to this transaction but was completed to allow for electronic filing only.

Craig Barrows, Attorney-in-fact 06/02/2006

** 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.