FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL										
OMB Number:	3235-0287									
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* THIBAUD DIDIER M C (Last) (First) (Middle) 2, PLACE DE PADOUE						Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] One of Earliest Transaction (Month/Day/Year) 06/05/2007							[(Ch	below)	able) r (give title	10% Ow Other (s below)	ner pecify	
(Street) BRIIS SOU 91640 (City) (State) (Zip)							4. If Amendment, Date of Original Filed (Month/Day/Year)							ndividual or Joint/Group Filing (Check Applicable e) X Form filed by One Reporting Person Form filed by More than One Reporting Person				
Table I - Non-Deriva 1. Title of Security (Instr. 3) 2. Transac Date (Month/Da							ction 2A. Deemed Execution Date,			3. 4. Securi Transaction Dispose				5. Amount of		6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)
Common Stock 06/05/						/2007		Code	v	Amount 17,143	(A) or (D)	Price \$0.0	Transac (Instr. 3	Transaction(s) (Instr. 3 and 4)		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)	Execution D	Date, T	4. Transa Code (I 8)		5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		6. Date Exercisa Expiration Date (Month/Day/Year			7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	i C i F illy C	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				C	Code	v	(A)		Date Exercisabl		Expiration Date	Title	Amount or Number of Shares					
Non- Qualified Stock Option (Right to	\$13.07	06/05/2007			A		30,000		06/05/2008	(2)	06/05/2017	Common	30,000	\$0.00 ⁽³⁾	30,000	0	D	

Explanation of Responses:

- $1.\ These \ shares \ of \ restricted \ stock \ vest \ in \ three \ equal \ installments \ commencing \ June \ 5, \ 2008$
- 2. This option vests in four equal installments commencing on June 5, 2008.
- 3. Field N/A to this transaction but was completed to allow for electronic filing only.

Craig Barrows, Attorney-in-fact 06/07/2007

** 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.