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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

	OMB APPROVAL								
	OMB Number:	3235-0287							
	Estimated average burden								
1	hours nor resnance.	0.5							

	tion 1(b).	ide. See		File						es Exchan				llouis	per response.	0.5
1. Name and Address of Reporting Person* Lima Marcelo G (Last) (First) (Middle) 199 RIVERNECK ROAD				or Section 30(h) of the Investment Company Act of 1940 2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] 3. Date of Earliest Transaction (Month/Day/Year) 08/12/2007								5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner Officer (give title below) VP & GM Comm Imaging & Vis				
(Street) CHELM (City)	SFORD M.		4. If Amendment, Date of Original Filed (Month/Day/Year) (Zip))	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person Form filed by More than One Reporting Person					
		Tabl	e I - Non	-Deriv	ative S	Securi	ties Ac	quired,	Dis	posed o	f, or l	Benefic	ially Ov	ned		
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				h/Day/Year) if		2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Di Code (Instr. 5)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 5)		and Se Be Ov Re	Amount of curities neficially ned Following ported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)		
								Code	v	Amount	(A (D) or Pri		nsaction(s) str. 3 and 4)		
Common Stock 08/12/					½/2007		F		120		D \$1	.3.05	17,421	D		
		Та	ble II - D (e							sed of, onvertib				ed		
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	ercise (Month/Day/Year) if any of ative (Month		ned 4. In Date, Tran Cod Day/Year) 8)		ion of str. D Si A (A D of (I)	Number f erivative ecurities cquired i) or isposed f (D) nstr. 3, 4 nd 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Security (Instrand 4)			e derivative	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)

Date Exercisable

Explanation of Responses:

Alex Braverman, Attorney-in-

of Shares

fact

Title

Expiration Date

** Signature of Reporting Person

Date

08/14/2007

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.