FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

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

OMB APPROVAL OMB Number: Estimated average burden hours per response: 0.5

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* BARROWS CRAIG							MERCURY COMPUTER SYSTEMS INC [MRCY]									iship of Reporti applicable) irector ifficer (give title		10% C	wner (specify	
(Last) (First) (Middle) 199 RIVERNECK ROAD					3. Date of Earliest Transaction (Month/Day/Year) 02/20/2007										X b	elow) VP, Gene	eral	below) Counsel		
(Street) CHELMSFORD MA 01824 (City) (State) (Zip)					4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)									ne) X F	′				
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																				
Date					enth/Day/Year) if a			A. Deemed kecution Date, any lonth/Day/Year)		Transaction Disposed Code (Instr. 5)		ties Acquired (A) o d Of (D) (Instr. 3, 4			nd Se Be Ov	Amount of curities neficially vned Following ported	Fo (D)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)	
							v	Amount	(A (C	() or ()	Price	Tra	nsaction(s) str. 3 and 4)			(11150.4)				
Common Stock 02/20/						2007			F		759	D \$13		\$13	.27	7 12,741		D		
		Та									sed of, onvertib				y Own	ed				
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security 3. Transaction Date Execution I if any (Month/Day/Year) (Month/Day/Year)			Date,	4. Transaction Code (Instr. 8)		n of r. Deriv	r osed) r. 3, 4	Expiratio	/Day/Year)		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4) Amoun or Numbe Title Shares		ount nber	8. Price Derivati Security (Instr. 5)	derivative Securities	y	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	

Explanation of Responses:

Craig Barrows

02/21/2007

** 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.