FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

wasnington, D.C. 20549

STATEMENT	OF CHA	NGES IN E	BENEFICIAL	OWNERSHIP

OMB APPRO	IVAL
OMB Number:	3235-0287
Estimated average burde	en
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* BARROWS CRAIG (Last) (First) (Middle)					<u>M</u>	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY] 3. Date of Earliest Transaction (Month/Day/Year)									(Che	below)	able) r (give title		10% Ov Other (s below)	vner
199 RIVERNECK ROAD					06/	06/05/2007 VP, General Counsel														
(Street) CHELMSFORD MA 01824				4. 11	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line	6. Individual or Joint/Group Filing (Check Applicable Line) X Form filed by One Reporting Person						
(City)	(Si	tate)	(Zip)		,										Form filed by More than One Reporting Person					
		Tab	le I - Nor	า-Deriv	ative	e Se	curitie	s A	cqu	ired, C	Disp	osed o	f, or B	enef	iciall	y Owned				
1. Title of Security (Instr. 3) 2. Transa Date (Month/D					Execution Date,		Code (Instr. 5)					5. Amour Securitie Beneficia Owned F	Form (D) o		: Direct r Indirect str. 4)	7. Nature of Indirect Beneficial Ownership				
										Code	V	Amount	(A) (D)	or I	Price	Reported Transact (Instr. 3 a	tion(s)			(Instr. 4)
Common Stock 06/05/					5/200	2007			A		2,857 ⁽¹⁾ A S		\$0.00	14,357			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	Conversion Date Execution Date, if any Code Price of Derivative (Month/Day/Year)		Transa Code (I		on of Ex			6. Date Exercisable and Expiration Date (Month/Day/Year)			7. Title and Amount of Securities Underlying Derivative Secur (Instr. 3 and 4)			8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
					Code	v	(A)	(D)	Date Exe	e rcisable		Expiration Date	Title	or Nu of	ımber					
Non- Qualified Stock Option (Right to	\$13.07	06/05/2007			A		5,000		06/0	05/2008 ⁽²) 0	06/05/2017	Commo	n 5,	,000	\$0.00 ⁽³⁾	5,000		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

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.