# SEC Form 4

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# 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

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

# OMB APPROVAL OMB Number: 3235-0287 Estimated average burden

Estimated average burden	
hours per response:	0.5

(Loot) (First) (Middle)			2. Issuer Name and Ticker or Trading Symbol <u>MERCURY COMPUTER SYSTEMS INC</u> [     MRCY ]     3. Date of Earliest Transaction (Month/Day/Year)     08/07/2006		ionship of Reporting Perso all applicable) Director Officer (give title below) President, CEO & C	10% Owner Other (specify below)	
(Street) HOLLIS NH 03049 (City) (State) (Zip)			4. If Amendment, Date of Original Filed (Month/Day/Year)	6. Indivi Line) X	vidual or Joint/Group Filing (Check Applicable Form filed by One Reporting Person Form filed by More than One Reporting Person		

#### Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	Transaction Code (Instr.					5. Amount of Securities Beneficially Owned Following Reported	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	v	Amount	(A) or (D)	Price	Transaction(s) (Instr. 3 and 4)		(1130.4)
Common Stock	08/07/2006		М		7,182	A	\$2	848,735	D	
Common Stock	08/07/2006		М		78,794	A	\$4	927,529	D	
Common Stock								12,400 <sup>(1)</sup>	Ι	By Spouse

# 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)	3A. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code ( 8)		of Deri Seci Acq (A) ( Disp of (E	umber vative urities uired or oosed D) (Instr. and 5)	6. Date Exerc Expiration Da (Month/Day/Y	ate	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)	11. Nature of Indirect Beneficial Ownership (Instr. 4)
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				
Exercise of Incentive Stock Option	\$2	08/07/2006		М			7,182	09/08/1998	09/08/2007	Common	7,182	\$0.00 <sup>(2)</sup>	0	D	
Exercise of Incentive Stock Option	\$4	08/07/2006		М			78,794	10/20/2001	10/20/2007	Common	78,794	<b>\$0.00<sup>(2)</sup></b>	0	D	

Explanation of Responses:

1. This reporting person disclaims beneficial ownship of these securities, and this report shall not be deemed an admission that the reporting person is beneficial owner of these securities for purposes of Section 16 or for any other purposes.

2. Field N/A to this transaction but was completed to allow for electronic filing only.

### <u>Craig Barrows, Attorney-in-</u> fact

08/09/2006

Date

\*\* Signature of Reporting Person

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.