

MERCURY COMPUTER SYSTEMS INC  
 Form 4  
 December 17, 2004

**FORM 4**

UNITED STATES SECURITIES AND EXCHANGE COMMISSION  
 Washington, D.C. 20549

OMB APPROVAL

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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 OF SECURITIES**

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, Section 17(a) of the Public Utility Holding Company Act of 1935 or Section 30(h) of the Investment Company Act of 1940

(Print or Type Responses)

1. Name and Address of Reporting Person \*  
**BATY GORDON**

2. Issuer Name and Ticker or Trading Symbol  
**MERCURY COMPUTER SYSTEMS INC [MRCY]**

5. Relationship of Reporting Person(s) to Issuer

(Check all applicable)

(Last) (First) (Middle)

3. Date of Earliest Transaction (Month/Day/Year)  
**12/15/2004**

Director  10% Owner  
 Officer (give title below)  Other (specify below)

**11 CASTLE ROAD**  
 (Street)

4. If Amendment, Date Original Filed(Month/Day/Year)

6. Individual or Joint/Group Filing(Check Applicable Line)  
 Form filed by One Reporting Person  
 Form filed by More than One Reporting Person

**LEXINGTON, MA 02420**

(City) (State) (Zip)

**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)	3. Transaction Code (Instr. 8)	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	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
Common Stock	12/15/2004		S		2,000	D	\$ 30.04
Common Stock	12/15/2004		S		554	D	\$ 30.51
Common Stock	12/15/2004		S		545	D	\$ 30.52
Common Stock	12/15/2004		S		900	D	\$ 30.53
Common Stock	12/15/2004		S		1	D	\$ 30.54

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Common Stock	12/15/2004	S	100	D	\$ 30.62	30,309	D
Common Stock	12/15/2004	S	100	D	\$ 30.65	30,209	D
Common Stock	12/15/2004	S	100	D	\$ 30.66	30,109	D
Common Stock	12/15/2004	S	200	D	\$ 30.67	29,909	D
Common Stock	12/15/2004	S	500	D	\$ 30.7	29,409	D
Common Stock	12/15/2004	S	1,000	D	\$ 30.75	28,409	D
Common Stock	12/15/2004	S	400	D	\$ 31.01	28,009	D
Common Stock	12/15/2004	S	600	D	\$ 31.015	27,409	D
Common Stock	12/16/2004	S	130	D	\$ 30.85	27,279	D
Common Stock	12/16/2004	S	141	D	\$ 30.86	27,138	D
Common Stock	12/16/2004	S	2,200	D	\$ 30.87	24,938	D
Common Stock	12/16/2004	S	100	D	\$ 30.88	24,838	D
Common Stock	12/16/2004	S	359	D	\$ 30.9	24,479	D

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

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(9-02)

**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. Transaction Code (Instr. 8)	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3,	6. Date Exercisable and Expiration Date (Month/Day/Year)	7. Title and Amount of Underlying Securities (Instr. 3 and 4)	8. Price of Derivative Security (Instr. 5)	9. Nu Deriv Secur Bene Own Follo Repo Trans (Instr
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4, and 5)

	Date Exercisable	Expiration Date	Title	Amount or Number of Shares
Code V (A) (D)				

## Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
BATY GORDON 11 CASTLE ROAD LEXINGTON, MA 02420	X			

## Signatures

Joseph M. Hartnett,  
Attorney-in-fact 12/17/2004

        Signature of Reporting Person Date

## Explanation of Responses:

- \* 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. Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB number.