## FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

<b>STATEMENT</b>	<b>OF CHANGES</b>	IN BENEFICIAL	<b>OWNERSHIP</b>

ı	OMB APPRO	JVAL
	OMB Number:	3235-0287
ı	Estimated average burd	len
	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*  BATY GORDON				2. Issuer Name <b>and</b> Ticker or Trading Symbol  MERCURY COMPUTER SYSTEMS INC									1 /	Relationship of Reporting Person(s) to Issuer (Check all applicable)     X Director 10% Owner					
				L M	[ MRCY ]									Λ		er (give title		(specify	
(Last) 11 CASTLE	(First	st) (	Middle)			ate of3/20		t Trans	action (M	onth/[	Day/Year)					below		below	
(Street)				4. If	Amer	ndment,	Date o	f Original	Filed	(Month/Da	ay/Ye	ar)		Indivi	dual or	r Joint/Group	Filing (Check A	pplicable	
LEXINGTO	N MA	A (	)2420												X		•	Reporting Pers	
(City)	(Sta	ute) (	Zip)													Form Perso		e than One Rep	orting
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
		2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4 5)				4 and Secu Bene Own		mount of urities eficially ed Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
							Code	v	Amount		(A) or (D) Price		- 1	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Sto	ck			12/13	/2004				S		500		D	\$29.	61	4	0,909	D	
Common Sto	ck			12/13	/2004				S		300		D	\$29.	62	4	0,609	D	
Common Sto	ck			12/13/2004					S		100		D	\$29.63		4	0,509	D	
Common Stock				12/13	12/13/2004				S		100		D	\$29.64		40,409		D	
Common Sto	ck			12/13	/2004				S		2,000		D	\$29.	94	3	8,409	D	
Common Sto	ck			12/14	/2004				S		300		D	\$29.	81	3	8,109	D	
Common Sto	ck			12/14	12/14/2004				S		700		D	\$29.83		37,409		D	
Common Sto	ck			12/14	/2004				S		700		D	\$29.	93	3	6,709	D	
Common Sto	ck			12/14	/2004				S		2,300		D	\$29.	94	3	4,409	D	
		Та									sed of, o				/ Ow	ned			
1. Title of 2. 3. Transaction 3A. Deemed 4. Execution Date Execution Date, Trans			4. Transa Code (I	5. Number 6		6. Date Exercisa Expiration Date (Month/Day/Year		able and 7. Title and Amount of			8. Prio Deriva Secur (Instr.	ative derivative rity Securities	Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)					
-ynlanation of					Code	v	(A)		Date Exercisal		Expiration Date	Title	or Nur of	ount mber ares					

Robert E. Hult, Attorney-in-

12/15/2004

**fact** 

\*\* Signature of Reporting Person

Date

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

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.

<sup>\*</sup> If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).