FORM 4

## UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

STATEMENT	OF CHANGE	S IN BENEFICIA	L OWNERSHIP

OMB APPROVAL								
OMB Number:	3235-0287							
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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*  ISENSTEIN BARRY S  (Last) (First) (Middle)  93 WOODBINE ROAD					3. D	Issuer Name and Ticker or Trading Symbol     MERCURY COMPUTER SYSTEMS INC     [ MRCY ]      Ohling the system of the system								S. Relationship of Reporting Person(s) to Issuer (Check all applicable)     Director 10% Owner     X Officer (give title Other (specify below)     VP Defense Electronics Group      6. Individual or Joint/Group Filing (Check Applicable)					
(Street)  CARLIS  (City)			)1741 Zip)											Line)	Form	n filed by O n filed by M on		•	
		Tabl	e I - No	on-Deriv	ative	Sec	uritie	s Ac	quired	d, Dis	sposed o	f, or E	enefic	cially	y Owne	ed			
Dat			Date	e E onth/Day/Year) it		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 a 5)					6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership (Instr. 4)		
									Code	v	Amount	(A) o (D)	Price	Э	Transac (Instr. 3	tion(s)			(111511.4)
Common Stock			06/16/2	06/16/2005				S <sup>(1)</sup>		1,000	D	\$28	3.83	3 32,804		I		By The Isenstein Family Investment Trust	
		Та	ble II -								osed of, o				Owned				
1. Title of Derivative Security (Instr. 3)	Derivative Conversion Date Execused (Month/Day/Year) if any		if any	, , , ,		5. Number of		mber ative rities ired osed		Exerc	isable and	Amount of		8. De Se (Ir	Price of erivative ecurity estr. 5)	9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Ownership Form: Direct (D) or Indirect (I) (Instr. 4		11. Nature of Indirect Beneficial Ownership (Instr. 4)
					Code	v	(A)	(D)	Date Exercis	sable	Expiration Date	Title	Amoun or Number of Shares						

1. The sale reported on this Form 4 was effected pursuant to a Rule 10b5-1 trading plan adopted by Mr. Isenstein on December 15, 2004.

Robert E. Hult, Attorney-in-06/16/2005 **fact** 

\*\* 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.