FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

	OMB APPRO	VAL				
	OMB Number:	3235-0287				
l	Estimated average burde	en				
l	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).

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

1. Name an	M	2. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]									ck all app Direc Office	tor er (give title		10% (Owner (specify				
(Last) 93 WOO	st) (First) (Middle) WOODBINE ROAD						3. Date of Earliest Transaction (Month/Day/Year) 07/18/2005								below) below) VP Defense Electronics Group				′
(Street) CARLIS)1741 Zip)		4. If	4. If Amendment, Date of Original Filed (Month/Day/Year)								Line)	ndividual or Joint/Group Filing (Check Applicable e) X 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/						Execution Date,						es Acquired (A) or Of (D) (Instr. 3, 4 and			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) o (D)	Price	e	Transac (Instr. 3	ction(s)			(III3ti. 4)
Common Stock 07.				07/18/2	2005	005			S ⁽¹⁾		1,000	D	\$29	9.35	31,804		I		By The Isenstein Family Investment Trust
	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)				6. Date Expirat (Month	ion Da		7. Title and Amount of Securities Underlying Derivative Security (Instr. and 4)		8. Price of Derivative Security (Instr. 5)		9. Number derivative Securities Beneficial Owned Following Reported Transactio (Instr. 4)	Owne Form: Direct or Ind (I) (Ins	10. 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						

Explanation of Responses:

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.

Joseph M. Hartnett, Attorneyin-fact

07/20/2005

** 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.