FORM 3

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington, D.C. 20549

INITIAL STATEMENT OF BENEFICIAL OWNERSHIP OF SECURITIES

OMB APPROVAL								
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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* CHAMILLARD GEORGE W CHAMILLARD GEORGE W 06/28/2004			nent	3. Issuer Name and Ticker or Trading Symbol MERCURY COMPUTER SYSTEMS INC [MRCY]							
(Last) MERCURY C	(First)	(Middle) UTER SYSTEMS, INC.			Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner				5. If Amendment, Date of Original Filed (Month/Day/Year)		
199 RIVERNECK ROAD					Officer (give title below)		Other (specify below)		6. Individual or Joint/Group Filing (Check Applicable Line)		
(Street) CHELMSFOR	RD MA	01824							X		y One Reporting Person y More than One erson
(City)	(State)	(Zip)									
Table I - Non-Derivative Securities Beneficially Owned											
1. Title of Security (Instr. 4)					ally Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5) 4. Nature of Indirect Be (Instr. 5)		Beneficial Ownership			
No Securities Beneficially Owned					0	D					
Table II - Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)											
Expira		Expiration D	. Date Exercisable and expiration Date Month/Day/Year)		d 3. Title and Amount of Securi Underlying Derivative Securi		4. Conver or Exer	cise	5. Ownership Form: Direct (D)	6. Nature of Indirect Beneficial Ownership (Instr. 5)	
1								Price of			

Explanation of Responses:

Joseph M. Hartnett, Attorney-

in-fact

** Signature of Reporting Person

Date

07/07/2004

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 5 (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.