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OMB Number 3235-0104
Expires: September 30, 1998 Estimated average burden hours per response ..... 0.5

U.S. SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

FORM 3

## INITIAL STATEMENT OF 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(f) of the Investment Company Act of 1940

	=======================================		
1. Name and Address of Reporti			
Chasen, Steven			
(Last) (First			
76 Country Club Circle			
	(Ctroot)		
Pembroke, Massachusetts	(Street) 02359		
(City) (State			
(City) (State	) (ΣΙΡ)		
======================================	======================================	=======================================	
7/99	comone (nonem/bay/rear)		
	=======================================	=======================================	
	er of Reporting Person (Voluntar		
=======================================	=======================================	=======================================	
4. Issuer Name and Ticker or T			
Mercury Computer Systems,	Inc.	=======================================	
5 Relationship of Reporting Pe (Check all applicable)			
[ ] Director [ X ] Officer (give title	[ ] 10% Ow below) [ ] Other	ner (specify below)	
	d General Manager, Operations	,	
======================================	======================================	=======================================	
N/A			
=======================================	=======================================	=======================================	
		=======================================	
7. Individual or joint/Group F			
X Form filed by On	· ·		
Form filed by Mo	re than One Reporting Person		
Table I Non-Derivati	======================================		
	=======================================	=======================================	
1. Title of Security (Instr. 4)	<ol> <li>Amount of Securities Beneficially Owned (Instr. 4)</li> </ol>	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	Nature of Indirect Beneficial Ownership     (Instr.5)
Common Stock	39,340	D	

\_\_\_\_\_\_

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)

Table II -- Derivative Securities Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

\_\_\_\_\_

	and Ex	exercisable piration Date /Day/Year)	3. Title and Amount of Underlying Derivat (Instr. 4)	tive Security  Amount	4. Conversion or	5. Owner- ship Form of Derivativ Security: Direct	7. Nature of
1. Title of Security (Instr. 4)	Date Exer- cisable	Expira- tion Date	Title	or Number of Shares	Exercise Price of Derivative Security	(D) or Indirect (I) (Instr.5)	Indirect Beneficial Ownership (Instr. 5)
Stock Option (right to buy)	(1)	7/30/06	Common	2,160	2.00	D	
Stock Option (right to buy)	(2)	9/19/06	Common	37,500	4.00	D	
Stock Option (right to buy)	(3)	9/28/08	Common	2,000	7.625	D	

Explanation of Responses:

- (1) The option became exercisable as to 720 shares on July 30, 1999, and becomes exercisable as to an additional 720 shares on each of July 30, 2001 and July 30, 2002.
- (2) The option became exercisable as to 12,500 shares on October 20, 1999 and becomes exercisable as to an additional 12,500 shares on each of October 20, 2000 and October 20, 2001.
   (3) The option became exercisable as to 400 shares on September 28, 1999
- and becomes exercisable as to 400 shares on September 28, 1999 and becomes exercisable as to an additional 400 shares on each of September 28, 2000, September 28, 2001, September 28, 2002 and September 20, 2003.

/s/Steven Chasen	11/10/00
**Signature of Reporting Person	Date

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 provided is insufficient. See Instruction 6 for procedure.

<sup>\*\*</sup> Intentional misstatements or omissions of facts constitute Federal Criminal Violations.