
 OMB APPROVAL

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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

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1. Name and Address of Reporting Person

Berman, R. Schorr

 (Last) (First) (Middle)

18 Adams Street

 (Street)

Lexington, MA 02173

 (City) (State) (Zip)

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2. Date of Event Requiring Statement (Month/Day/Year)

1/29/98

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3. IRS or Social Security Number of Reporting Person (Voluntary)

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4. Issuer Name and Ticker or Trading Symbol

Mercury Computer Systems, Inc. MRCY

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5 Relationship of Reporting Person to Issuer
 (Check all applicable)

[X] Director [] 10% Owner
 [] Officer (give title below) [] Other (specify below)

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6. If Amendment, Date of Original (Month/Year)

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Table I -- Non-Derivative Securities Beneficially Owned

1. Title of Security (Instr. 4)	2. Amount of Securities Beneficially Owned (Instr. 4)	3. Ownership Form: Direct (D) or Indirect (I) (Instr. 5)	4. Nature of Indirect Beneficial Ownership (Instr.5)
Common Stock	2,500	D	
Common Stock	842,876	I	*
Preferred Stock	2,036,910	I	*

*Mr. Berman may be deemed to beneficially own 2,879,786 shares owed by MD Co., as to which he disclaims beneficial ownership except to the extent of his direct pecuniary interest. Mr. Berman is President of MDT Advisers, Inc., which manages the investments of MD Co.

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

(Print or Type Responses)

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

1. Title of Security (Instr. 4)	2. Date Exercisable and Expiration Date (Month/Day/Year)		3. Title and Amount of Securities Underlying Derivative Security (Instr. 4)		4. Conversion or Exercise Price of Derivative Security	5. Ownership Form of Derivative Security: Direct (D) or Indirect (I) (Instr.5)	7. Nature of Indirect Beneficial Ownership (Instr. 5)
	Date Exer- cisable	Expira- tion Date	Title	Amount or Number of Shares			
Stock Option (right to buy)	(1)	7/30/06	Common	1,829	4.00	D	
Stock Option (right to buy)	(1)	7/30/06	Common	1,812	4.00	D	
Stock Option (right to buy)	(2)	9/30/06	Common	1,181	4.00	D	
Stock Option (right to buy)	*	10/20/07	Common	2,406	8.00	D	

Explanation of Responses:

- (1) 25% of the option is exercisable. The remainder becomes exercisable in equal increments on July 30 of each of 1998, 1999 and 2000.
- (2) The option is 25% exercisable. The remainder becomes exercisable in equal increments on September 30 of each of 1998, 1999 and 2000.

/s/ R.Schorr Berman

**Signature of Reporting Person

Date

** 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 provided is insufficient. See Instruction 6 for procedure.

