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

FORM 4

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

[ ] Check this box if no longer subject of Section 16. Form 4 or Form 5  
 obligations may continue. See Instruction 1(b).

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1. Name and Address of Reporting Person

Berman, R. Schorr

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 (Last) (First) (Middle)

18 Adams Street

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 (Street)

Lexington, Massachusetts 02173

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 (City) (State) (Zip)

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2. Issuer Name and Ticker or Trading Symbol

Mercury Computer Systems, Inc. MRCY

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

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4. Statement for Month/Year

February 1998

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

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6. Relationship of Reporting Person to Issuer  
 (Check all applicable)

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

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Table I -- Non-Derivative Securities Acquired, Disposed of,  
 or Beneficially Owned

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1. Title of Security (Instr. 3)	2. Transaction Date (mm/dd/yy)	3. Transaction Code (Instr. 8) ----- Code V	4. Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)		5. Amount of Securities Beneficially Owned at End of Month (Instr. 3 and 4)	6. Owner- ship Form: (D) or Indirect (I) (Instr.4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Amount	(A) or (D) Price			
Common Stock	1/29/98	S	425,000	D 10.50	417,876	I	*
Common Stock	1/29/98	J(1)	2,036,910		2,036,910	I	*
Common Stock					2,500	D	

\* Mr. Berman may be deemed to own 2,454,786 shares and to have sold 425,000 shares owned 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.

(1) Converted from preferred stock in the amount of (3) common shares for every (1) preferred share.

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

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. Conver- sion of Exer- cise Price of Deriv- ative Secur- ity	3. Trans- action Date (Month/ Day/ Year)	4. Trans- action Code (Instr. 8) Code V	5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5) (A) (D)	6. Date Exercisable and Expiration Date (Month/Day/Year) Date Expira- tion Date	7. Title and Amount of Underlying Securities (Instr. 3 and 4) ----- Amount or Number of Shares Title	8. Price of Deriv- ative Secur- ity (Instr. 5)	9. Number of Deriv- ative Secur- ities Bene- ficially Owned at End Month (Instr. 4)	10. Owner- ship of Deriv- ative Secur- ity: Direct (D) or In- direct (I) (Instr. 4)	11. Nature of In- direct Bene- ficial Owner- ship (Instr. 4)
Stock Option (right to buy)	4.00				* 7/30/06	Common 1,829		1,829	D	
Stock Option (right to buy)	4.00				* 7/30/06	Common 1,812		1,812	D	
Stock Option (right to buy)	4.00				* 9/30/06	Common 1,181		1,181	D	
Stock Option (right to buy)	8.00				* 10/30/07	Common 2,406		2,406	D	

Explanation of Responses:

\* fully exercisable

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\*\*Signature of Reporting Person Date

R. Schorr Berman

\*\* 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 procedures.