SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549

SCHEDULE 13G (RULE 13D-102)

INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT TO RULES 13D-1(B), (C) AND (D) AND AMENDMENTS THERETO FILED PURSUANT TO RULE 13D-2(B)

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		(AMENDMENT NO. 2	2)1				
	MERCU	RY COMPUTER SYST	ΓEMS, INC.				
	(Name of Issuer)						
Common Stock, \$0.01 par value per share							
	(Title or Class of Securities)						
589378-10-8							
		(CUSIP Number	·				
		December 31, 20	000				
	(Date of Event Whi	ch Requires Fili	ing of this Stateme	ent)			
Check the is filed:	appropriate box to d	esignate the ru	le pursuant to whic	ch this Schedule			
	[X] Rule 13d-1(b [_] Rule 13d-1(c [_] Rule 13d-1(d)					
securitie alter the The deemed to Act of 19	initial filing on thi s, and for any subsequ disclosures provided information required be "filed" for the p 34 ("Act") or otherwiut shall be subject t).	ent amendment co in a prior cove in the remainder urpose of Sections se subject to the	ontaining informati er page. r of this cover pag on 18 of the Securi ne liabilities of 1	ion which would ge shall not be ities Exchange that section of			
CUSIP	No. 589378-10-8		13G Page 2	-			
1	NAMES OF REPORTING PERSONS S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS Memorial Drive Trust #04-2272266 Plan #001						
2							
	N/A	(^) 		В)			
3	SEC USE ONLY						
4	4 CITIZENSHIP OF PLACE OR ORGANIZATION						
	Massachusetts						
		5 S0I	LE VOTING POWER				

698,500

6 SHARED VOTING POWER

NUMBER OF

SHARES

BENEFICIALLY

OWNED BY			Θ		
EACH REPORTING PERSON		7	SOLE DISPOSITIVE POWER		
			698,500		
WITH		8	SHARED DISPOSITIVE POWER		
			Θ		
9	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON				
	698,500				
10	CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHAR (SEE INSTRUCTIONS)				
	N/A				
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)				
	3.25%				
12	TYPE OF REPORTING PERS	SON (SEE IN	STRUCTIONS)		
	EP				

ITEM 1(A). NAME OF ISSUER:

Mercury Computer Systems, Inc.

ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES:

199 Riverneck Road

Chelmsford, MA 01824-2820

ITEM 2(A). NAME OF PERSON FILING:

Memorial Drive Trust ("MDT")

ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE:

125 CambridgePark Drive

6th Floor

Cambridge, MA 02140

ITEM 2(C). PLACE OF ORGANIZATION:

Massachusetts

ITEM 2(D). TITLE OF CLASS OF SECURITIES:

Common Stock, \$0.01 par value

ITEM 2(E). CUSIP NUMBER:

589378-10-8

- ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), OR 13D-2(B), CHECK WHETHER THE PERSON FILING IS A:
 - (A) Broker or dealer registered under Section 15 of the Act.
 - (B) Bank as defined in Section 3(a)(6) of the Act.
 - (C) Insurance Company as defined in Section 3(a)(19) of the Act.
 - (D) Investment Company registered under Section 8 of the Investment Company Act.
 - (E) Investment Adviser registered under Section 203 of the Investment Advisers Act of 1940.
 - (F) [X] Employee Benefit Plan, Pension Fund which is subject to the provisions of the Employee Retirement Income Security Act of 1974 or Endowment Fund; see 13d-1(b)(1)(ii)(F).
 - (G) Parent Holding Company, in accordance with Rule 13d-1(b) (1)(ii)(G); see Item 7.
 - (H) Group, in accordance with Rule 13d-1(b)(1)(ii)(H).

ITEM 4. OWNERSHIP:

- (a) Amount beneficially owned: 698,500 shares
- (b) Percent of class: 3.25%
- (c) Number of shares as to which such person has:
 - (i) Sole Power to vote or to direct the vote: 698,500 shares
 - (ii) Shared power to vote or to direct the vote: None
 - (iii) Sole power to dispose or to direct the disposition of: 698,500 shares
 - (iv) Shared power to dispose or to direct the disposition of: None

ITEM 5. OWNERSHIP OF FIVE PERCENT OR LESS OF A CLASS:

If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following. [X]

ITEM 6. OWNERSHIP OF MORE THAN FIVE PERCENT ON BEHALF OF ANOTHER PERSON:

Not applicable.

ITEM 7. IDENTIFICATION AND CLASSIFICATION OF THE SUBSIDIARY WHICH ACQUIRED THE SECURITY BEING REPORTED ON BY THE PARENT HOLDING COMPANY:

Not applicable.

ITEM 8. IDENTIFICATION AND CLASSIFICATION OF MEMBERS OF THE GROUP:

Not applicable.

ITEM 9. NOTICE OF DISSOLUTION OF GROUP:

Not applicable.

ITEM 10. CERTIFICATION:

By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were acquired in the ordinary course of business and were not acquired for the purpose of and do not have the effect of changing or influencing the control of the issuer of such securities and were not acquired in connection with or as a participant in any transaction having such purposes or effect.

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

February 12, 2001 -----(Date)

MEMORIAL DRIVE TRUST

By: /s/ R. Schorr Berman

R. Schorr Berman Administrator and Chief Executive Officer