UNITED STATES SECURITIES AND EXCHANGE COMMISSION WASHINGTON, DC 20549

SCHEDULE 13G

UNDER THE SECURITIES EXCHANGE ACT OF 1934

(AMENDMENT NO.

MERCURY COMPUTER SYSTEMS INC

(Name of Issuer) Common (Title of Class of Securities) 589378108 (CUSIP Number)

Check the following box if a fee is being paid with this statement []. (A fee is not required only if the filing person: (1) has a previous statement on file reporting beneficial ownership of more than five percent of the class of securities described in Item 1; and (2) has filed no amendment subsequent thereto reporting beneficial ownership of five percent or less of such class.) (See Rule 13d-7.)

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be filed for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

Page 1 of 2 pages

CUSIP No. 589378108

OWNED BY

	13G			
_	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON			
	Massachusetts Mutual Life Insurance Company 04-1590850			
2	CHECK THE APPROPRIATE BOX IF MEMBER OF A GROUP (A)			
	(B)x			
3	SEC USE ONLY			
4	CITIZENSHIP OF PLACE OF ORGANIZATION			
	Commonwealth of Massachusetts			
NUMBER OF	5 SOLE VOTING POWER			
SHARES				
BENEETCTA	NIIY 6 SHARED VOTING POWER			

EACH			not applicable		
REPORTIN		7	SOLE DISPOSITIVE POWER		
PERSO WITH	N		500,000		
		8	SHARED DISPOSITIVE POWER		
			not applicable		
9	AGGREGAT PERSON	E AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING		
	500,000				
10		X IF THE SHARES *	AGGREGATE AMOUNT IN ROW (9) EXCLUDES		
	not appl	icable			
11	PERCENT	OF CLASS	REPRESENTED BY AMOUNT IN ROW 9		
	5.0	5%			
12	TYPE OF	REPORTING	G PERSON *		
IC (insurance company)					
* SEE INSTRUCTION BEFORE FILLING OUT!					
			Page 2 of 2 pages		
CUSIP No	. 589378	108			
			136		
1	NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON				
	MassMutual Corporate Investors 04-2483041				
2	CHECK THE APPROPRIATE BOX IF MEMBER OF A GROUP (A)				
			(B)x		
3	SEC USE	ONLY			
4	CITIZENS	HIP OF P	LACE OF ORGANIZATION		
	Commonwealth of Massachusetts				
		5	SOLE VOTING POWER		
NUMBER OF SHARES			500,000		
BENEFICI		6	SHARED VOTING POWER		
OWNED EACH	ВҮ		not applicable		
REPORTIN		7	SOLE DISPOSITIVE POWER		
PERSO WITH			500,000		
		8	SHARED DISPOSITIVE POWER		
			not applicable		
9	AGGREGAT PERSON	E AMOUNT	BENEFICIALLY OWNED BY EACH REPORTING		
	500,000				
10			AGGREGATE AMOUNT IN ROW (9) EXCLUDES		
		SHARES *			
	not appl	.ıcable			

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

5.05%

12 TYPE OF REPORTING PERSON *

IV (investment company)

* SEE INSTRUCTION BEFORE FILLING OUT!

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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

ITEM 2(a). Name of Person Filing:

This statement is filed on behalf of Massachusetts Mutual Life Insurance Company and MassMutual Corporate Investors, which together may be regarded as a group for the purpose of this statement. This statement is signed on behalf of both the aforementioned parties, and therefore it does not include a separate agreement providing for a joint filing.

ITEM 2(b). Address of Principal Business Office:

MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY 1295 State Street Springfield, Massachusetts 01111

MASSMUTUAL CORPORATE INVESTORS 1295 State Street Springfield, Massachusetts 01111

ITEM 2(c). Citizenship

MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY is organized under the laws of the Commonwealth of Massachusett

MASSMUTUAL CORPORATE INVESTORS is organized under the laws of the Commonwealth of Massachusett

ITEM 2(d). Title of Class of Securities: Common Stock

ITEM 2(e). CUSIP NUMBER: 589378108

ITEM 3. This statement is filed pursuant to Rule 13d-1(b) by
Massachusetts Mutual Life Insurance Company,
an insurance company as defined in Section 3(a)(19), and
MassMutual Corporate Investors, an investment
company registered under Section 8 of the Investment
Company Act of 1940, which together may be
regarded as a group pursuant to Rule
13d-1(b) (ii) (H).

ITEM 4. Ownership:

This statement if filed to report information as of January 29, 1998.

(a) Amount Beneficially Owned:

Massachusetts Mutual Life Insurance Company, and MassMutual Corporate Investors each own 500,000 shares of common stock.

Total shares of common stock owned directly and indirectly: 1,000,000.

The filing of this statement shall not be construed as an admission that Massachusetts Mutual Life Insurance Company and MassMutual Corporate Investors, Investors, are for the purposes of sections 13(d) and 13(g) of the Securities Exchange Act of 1934, the

beneficial owners of any common stock of the issuer.

(b) Percent of Class:

Percentage of ownership is calculated as follows:

1,000,000 (shs held) / 9,868,223 (shares outstanding) = 10.1%

(c) Powers:

Massachusetts Mutual Life Insurance Company and MassMutual Corporate Investors, each have sole power to vote or dispose of 500,000 shares of common stock.

ITEM 5. Ownership of Five Percent or Less of a Class:

Not Applicable

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:

Note applicable

ITEM 8. Identification and Classification of Members of the Group:

not applicable

ITEM 9. Notice of Dissolution of the Group:

Not applicable

ITEM 10. Certification:

By signing below, MASSACHUSETTS MUTUAL LIFE INSURANCE COMPANY and MASSMUTUAL CORPORATE INVESTORS certify to the best of their 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 purpose or effect.

Signature

After reasonable inquiry and to the best of knowledge and belief, MASSACHUSETTS MUTUTAL LIFE INSURANCE COMPANY and MASSMUTUAL CORPORATE INVESTORS, INVESTORS, certify that the information set forth in this statement is true, complete and correct.

February 9, 1998 February 9, 1998

Date Date

MASSACHUSETTS MUTUAL MASSMUTUAL CORPORATE LIFE INSURANCE COMPANY INVESTORS

By: signature By: signature

Richard C. Morrison
Managing Director

Richard C. Morrison
Vice President

(Print Name and Title of Person Signing) (Print Name and Title of Person Signing)