SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 Schedule 13G Under the Securities Exchange Act of 1934 (Amend) MERCURY COMPUTER SYSTEMS INC (Name of Issuer) Common Stock (Title of Class of Securities) 589378108 (CUSIP Number) December 31, 2006 (Date of Event Which Requires Filing of this Statement) Check the appropriate box to designate the rule pursuant to which this Schedule is filed: Rule 13d-1(b) \*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 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). CUSIP No. 589378108 (1) Names of Reporting Persons. I.R.S. Identification Nos. of above persons (entities only). BARCLAYS GLOBAL INVESTORS, NA., 943112180 (2) Check the appropriate box if a member of a Group\* (a) / / (b) /X/ (3) SEC Use Only \_\_\_\_\_\_ (4) Citizenship or Place of Organization U.S.A. (5) Sole Voting Power Number of Shares Beneficially Owned 406,082 by Each Reporting Person With (6) Shared Voting Power (7) Sole Dispositive Power 484,586 (8) Shared Dispositive Power (9) Aggregate Amount Beneficially Owned by Each Reporting Person (10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares\* (11) Percent of Class Represented by Amount in Row (9) 2.19%

[X]

(12) Type of Reporting Person\*

BK

CUSIP No.	589378108 		
	eporting Persons. Identification Nos. of above per	sons (entities only).	
BARCLAY	S GLOBAL FUND ADVISORS		
(2) Check the a (a) // (b) /X/	ppropriate box if a member of a		
(3) SEC Use Onl	у		
U.S.A.	or Place of Organization		
Number of Share Beneficially Ow	es wned	(5) Sole Voting Power 614,923	
by Each Reporti Person With		(6) Shared Voting Power	
		(7) Sole Dispositive Power 614,923	
		(8) Shared Dispositive Power	
(9) Aggregate Amount Beneficially Owned by Each Reporting Person 614,923			
(10) Check Box	if the Aggregate Amount in Row (	9) Excludes Certain Shares*	
(11) Percent of 2.78%	(11) Percent of Class Represented by Amount in Row (9)		
(12) Type of Re	porting Person*		
CUSIP No.	589378108		
	eporting Persons. Identification Nos. of above per	sons (entities only).	
BARCLAY	S GLOBAL INVESTORS, LTD		
(2) Check the a (a) / / (b) /X/	ppropriate box if a member of a	Group*	
(3) SEC Use Onl	у		
England	or Place of Organization		
Number of Share Beneficially Ow by Each Reporti Person With	res Owned	(5) Sole Voting Power	
		(6) Shared Voting Power	
		(7) Sole Dispositive Power	
		(8) Shared Dispositive Power	

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

(9) Aggregate -	
(10) Check Box if the Aggregate Amount	
(11) Percent of Class Represented by Am 0.00%	ount in Row (9)
(12) Type of Reporting Person* BK	
CUSIP No. 589378108	
(1) Names of Reporting Persons. I.R.S. Identification Nos. of a	bove persons (entities only).
BARCLAYS GLOBAL INVESTORS JAPAN	TRUST AND BANKING COMPANY LIMITED
(2) Check the appropriate box if a memb (a) / / (b) /X/	er of a Group*
(3) SEC Use Only	
(4) Citizenship or Place of Organizatio Japan	
 Number of Shares Beneficially Owned	(5) Sole Voting Power
by Each Reporting Person With	(6) Shared Voting Power
	(7) Sole Dispositive Power
	(8) Shared Dispositive Power
(9) Aggregate	
(10) Check Box if the Aggregate Amount	
(11) Percent of Class Represented by Am 0.00%	ount in Row (9)
(12) Type of Reporting Person* BK	
CUSIP No. 589378108	
(1) Names of Reporting Persons. I.R.S. Identification Nos. of a	bove persons (entities only).
BARCLAYS GLOBAL INVESTORS JAPAN	
<ul><li>(2) Check the appropriate box if a memb</li><li>(a) / /</li><li>(b) /X/</li></ul>	er of a Group*
(3) SEC Use Only	
- (4) Citizenship or Place of Organizatio Japan	
Number of Shares Beneficially Owned by Each Reporting	(5) Sole Voting Power
Person With	(6) Shared Voting Power

-----(8) Shared Dispositive Power (9) Aggregate (10) Check Box if the Aggregate Amount in Row (9) Excludes Certain Shares\* (11) Percent of Class Represented by Amount in Row (9) 0.00% \_\_\_\_\_\_ (12) Type of Reporting Person\* \_\_\_\_\_\_ 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(S) FILING BARCLAYS GLOBAL INVESTORS, NA ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE 45 Fremont Street San Francisco, CA 94105 ITEM 2(C). CITIZENSHIP ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock - -----ITEM 2(E). CUSIP NUMBER 589378108 - -----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 (15 U.S.C. 780). (b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). Group, in accordance with section 240.13d-1(b)(1)(ii)(J) (j) // 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(S) FILING BARCLAYS GLOBAL FUND ADVISORS

(7) Sole Dispositive Power

ITEM 2(C). CITIZENSHIP U.S.A  ITEM 2(D). TILLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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) // Isank as defined in section 3(a) (6) of the Act (15 U.S.C. 7Bc). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 7Bc). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 249.13d(b)(1)(i1)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 249.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 249.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 249.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(1)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(1)(f). (g) // Foup, in accordance with section 249.13d-1(b)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)(1)		ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE 45 Fremont Street San Francisco, CA 94105	
ITEM 2(D). CUSIP NUMBER COMMON STOCK  TEM 2(E). CUSIP NUMBER 589379108  ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 130-1(B), OR 130-2(B), CHECK WHETHER THE PERSON FILING IS A  (a) / Broker or Dealer registered under Section 15 of the Act (15 U.S.C. 780.)  (b) / Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).  (c) / Instead Company as defined in section 3(a) (19) of the Act Company Act of 1940 (15 U.S.C. 80a-8).  (d) / Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).  (e) XX Investment Adviser in accordance with section 249.13d(b)(1)(ii)(F).  (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(11)(F).  (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(11)(f).  (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).  (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(j)  ITEM 1(A). NAME OF ISSUER MERCURY COMPUTER SYSTEMS INC  ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES 1998 TIVERNECK ROAD CHELMSFORD MA 01824  ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(C). CITIZENSHIP ENGLand  ITEM 2(C). CITIZENSHIP ENGLand  ITEM 2(C). CITIZENSHIP ENGLand  ITEM 2(C). CUSP NUMBER SS9378108  ITEM 2(C). CUSP NUMBER SS9378108  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 (15 U.S.C. 780.)  (b) //X Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c.).  (c) // Insurance Company as defined in section 13(a) (19) of the Act (15 U.S.C. 780.)  (d) // Investment Company as defined an section 15 of the Act (15 U.S.C. 780.)  (e) // Investment Adviser in accordance with section 240.13d-1(b)(1)(1)(F).  (f) // Employee Benefite Plan or endowment fund in accordance with section 240.13d-1(b)(1)(1)(F).  (g) // Parent Holding Company or control p	ITEM 2(C).	CITIZENSHIP U.S.A	
ITEM 2(E). CUSIP NUMBER	ITEM 2(D).	TITLE OF CLASS OF SECURITIES Common Stock	
ITEM 3. IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(8),  OR 13D-2(8), CHECK WHEHREN THE PERSON FILING IS A  (a) // Broker or Dealer registered under Section 15 of the Act	ITEM 2(E).	CUSIP NUMBER 589378108	
(d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).  (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).  (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).  (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).  (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).  (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).  (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  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 61824  ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE Murray House 1 Royal Mint Court LONDON, ECON 4HH  ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 598378108  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 (15 U.S.C. 780).  (b) // Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).  (c) // Insurance Company as defined in section 3(a) (19) of the Act (25 U.S.C. 78c).  (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).  (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).  (f) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(E).  (f) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(E).  (f) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Inv	<pre>ITEM 3.</pre>		
(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).  (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).  (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  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(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE Murray House 1 Royal Mint Court LONDON, ECON 4HH  ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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 (15 U.S.C. 78c).  (b) //X Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).  (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).  (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).  (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Femployee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Femployee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Femployee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Femployee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Femployee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (f) // Fem	(d) // Investm Company (e) /X/ Investm (f) // Employe 240.13d (g) // Parent	ent Company registered under section 8 of the Investment Act of 1940 (15 U.S.C. 80a-8). ent Adviser in accordance with section 240.13d(b)(1)(ii)(E). e Benefit Plan or endowment fund in accordance with section -1(b)(1)(ii)(F). Holding Company or control person in accordance with section	
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(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE MURRAY HOUSE 1 Royal Mint Court LONDON, EC3N 4HH  ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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 (15 U.S.C. 780).  (b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).  (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c).  (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).  (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).  (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).  (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(f).  (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).  (j) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).  (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)	(h) // A saving Insurang (i) // A church company (15U.S.)	gs association as defined in section 3(b) of the Federal Deposit ce Act (12 U.S.C. 1813). h plan that is excluded from the definition of an investment under section 3(c)(14) of the Investment Company Act of 1940 C. 80a-3).	
ITEM 1(B). ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES  199 RIVERNECK ROAD CHELMSFORD MA 01824  ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE Murray House 1 Royal Mint Court LONDON, EC3N 4HH  ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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 (15 U.S.C. 780). (b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(f). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(f). (g) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  ITEM 1(A). NAME OF ISSUER		MERCURY COMPUTER SYSTEMS INC	
ITEM 2(A). NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD  ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE  MUTRAY HOUSE  1 ROYAL MINT COURT LONDON, EC3N 4HH  ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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 (15 U.S.C. 780). (b) //X Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  ITEM 1(A). NAME OF ISSUER		ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES 199 RIVERNECK ROAD CHELMSFORD MA 01824	
ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE  MUTRAY HOUSE  1 ROYAL MITH COURT  LONDON, EC3N 4HH  ITEM 2(C). CITIZENSHIP  England  ITEM 2(D). TITLE OF CLASS OF SECURITIES  Common Stock  ITEM 2(E). CUSIP NUMBER  589378108  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  (15 U.S.C. 780).  (b) /// Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).  (c) // Insurance Company as defined in section 3(a) (19) of the Act  (15 U.S.C. 78c).  (d) // Investment Company registered under section 8 of the Investment  Company Act of 1940 (15 U.S.C. 80a-8).  (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).  (f) // Employee Benefit Plan or endowment fund in accordance with section  240.13d-1(b)(1)(ii)(F).  (g) // Parent Holding Company or control person in accordance with section  240.13d-1(b)(1)(ii)(G).  (h) // A savings association as defined in section 3(b) of the Federal Deposit  Insurance Act (12 U.S.C. 1813).  (i) // A church plan that is excluded from the definition of an investment  company under section 3(c)(14) of the Investment Company Act of 1940  (15U.S.C. 80a-3).  (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)		NAME OF PERSON(S) FILING BARCLAYS GLOBAL INVESTORS, LTD	
ITEM 2(C). CITIZENSHIP England  ITEM 2(D). TITLE OF CLASS OF SECURITIES Common Stock  ITEM 2(E). CUSIP NUMBER 589378108  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 (15 U.S.C. 780). (b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  ITEM 1(A). NAME OF ISSUER	ITEM 2(B).	ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE Murray House 1 Royal Mint Court LONDON, EC3N 4HH	
ITEM 2(D). TITLE OF CLASS OF SECURITIES  COMMON Stock  ITEM 2(E). CUSIP NUMBER  589378108  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 (15 U.S.C. 780). (b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c). (c) // Insurance Company as defined in section 3(a) (19) of the Act (15 U.S.C. 78c). (d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8). (e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E). (f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F). (g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G). (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813). (i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3). (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)  ITEM 1(A). NAME OF ISSUER	ITEM 2(C).	CITIZENSHIP England	
ITEM 2(E). CUSIP NUMBER 589378108  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	ITEM 2(D).	TITLE OF CLASS OF SECURITIES	
<pre>ITEM 3.</pre>	ITEM 2(E).	CUSIP NUMBER 589378108	
<ul> <li>(15 U.S.C. 78c).</li> <li>(d) // Investment Company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).</li> <li>(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).</li> <li>(f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).</li> <li>(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).</li> <li>(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).</li> <li>(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).</li> <li>(j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)</li> <li>ITEM 1(A). NAME OF ISSUER</li> </ul>	ITEM 3. OR 13D-2(B), CH (a) // Broker (	IF THIS STATEMENT IS FILED PURSUANT TO RULES 13D-1(B), ECK WHETHER THE PERSON FILING IS A or Dealer registered under Section 15 of the Act .C. 78o).  defined in section 3(a) (6) of the Act (15 U.S.C. 78c).	
<ul> <li>(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).</li> <li>(f) // Employee Benefit Plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F).</li> <li>(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).</li> <li>(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).</li> <li>(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).</li> <li>(j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)</li> <li>ITEM 1(A). NAME OF ISSUER</li> </ul>	(15 U.S (d) // Investm	.C. 78c). ent Company registered under section 8 of the Investment	
<ul> <li>(g) // Parent Holding Company or control person in accordance with section 240.13d-1(b)(1)(ii)(G).</li> <li>(h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).</li> <li>(i) // A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).</li> <li>(j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)</li> <li>ITEM 1(A). NAME OF ISSUER</li> </ul>	<ul><li>(e) // Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).</li><li>(f) // Employee Benefit Plan or endowment fund in accordance with section</li></ul>		
ITEM 1(A). NAME OF ISSUER	(g) // Parent	Holding Company or control person in accordance with section -1(b)(1)(ii)(G).	
	(h) // A saving Insurang (i) // A church company (15U.S.)	ce Act (12 U.S.C. 1813). h plan that is excluded from the definition of an investment under section 3(c)(14) of the Investment Company Act of 1940 C. 80a-3).	

```
ADDRESS OF ISSUER'S PRINCIPAL EXECUTIVE OFFICES
             199 RIVERNECK ROAD
          CHELMSFORD MA 01824
_ ------
ITEM 2(A). NAME OF PERSON(S) FILING
     BARCLAYS GLOBAL INVESTORS JAPAN TRUST AND BANKING COMPANY LIMITED
 _____
ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
                    Ebisu Prime Square Tower 8th Floor
                            1-1-39 Hiroo Shibuya-Ku
                            Tokyo 150-0012 Japan
ITEM 2(C). CITIZENSHIP
ITEM 2(D). TITLE OF CLASS OF SECURITIES
                    Common Stock
                               ITEM 2(E). CUSIP NUMBER
                   589378108
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
       (15 U.S.C. 780).
(b) /X/ Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
(c) // Insurance Company as defined in section 3(a) (19) of the Act
       (15 U.S.C. 78c).
      Investment Company registered under section 8 of the Investment
(d) //
       Company Act of 1940 (15 U.S.C. 80a-8).
       Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
(e) //
       Employee Benefit Plan or endowment fund in accordance with section
(f) //
       240.13d-1(b)(1)(ii)(F).
       Parent Holding Company or control person in accordance with section
(g) //
       240.13d-1(b)(1)(ii)(G).
      A savings association as defined in section 3(b) of the Federal Deposit
(h) //
       Insurance Act (12 U.S.C. 1813).
      A church plan that is excluded from the definition of an investment
(i) //
       company under section 3(c)(14) of the Investment Company Act of 1940
       (15U.S.C. 80a-3).
(j) //
       Group, in accordance with section 240.13d-1(b)(1)(ii)(J)
             NAME OF ISSUER
ITEM 1(A).
            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(S) FILING
    BARCLAYS GLOBAL INVESTORS JAPAN LIMITED
ITEM 2(B). ADDRESS OF PRINCIPAL BUSINESS OFFICE OR, IF NONE, RESIDENCE
                     Ebisu Prime Square Tower 8th Floor
                            1-1-39 Hiroo Shibuya-Ku
                            Tokyo 150-8402 Japan
ITEM 2(C). CITIZENSHIP
                          ______
ITEM 2(D). TITLE OF CLASS OF SECURITIES
                    Common Stock
ITEM 2(E). CUSIP NUMBER
                    589378108
         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
       (15 U.S.C. 780).
(b) //
       Bank as defined in section 3(a) (6) of the Act (15 U.S.C. 78c).
      Insurance Company as defined in section 3(a) (19) of the Act
(c) //
       (15 U.S.C. 78c).
(d) //
       Investment Company registered under section 8 of the Investment
       Company Act of 1940 (15 U.S.C. 80a-8).
(e) /X/ Investment Adviser in accordance with section 240.13d(b)(1)(ii)(E).
       Employee Benefit Plan or endowment fund in accordance with section
(f) //
       240.13d-1(b)(1)(ii)(F).
       Parent Holding Company or control person in accordance with section
       240.13d-1(b)(1)(ii)(G).
```

- (h) // A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813).
- A church plan that is excluded from the definition of an investment (i) // company under section 3(c)(14) of the Investment Company Act of 1940 (15U.S.C. 80a-3).
- (j) // Group, in accordance with section 240.13d-1(b)(1)(ii)(J)

## ITEM 4. OWNERSHIP

Provide the following information regarding the aggregate number and percentage of the class of securities of the issuer identified in Item 1.

(a) Amount Beneficially Owned:

1,099,509

(b) Percent of Class:

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

- (c) Number of shares as to which such person has:
  - sole power to vote or to direct the vote 1,021,005
  - (ii) shared power to vote or to direct the vote

\_\_\_\_\_ (iii) sole power to dispose or to direct the disposition of

- 1,099,509
- (iv) shared power to dispose or to direct the disposition of

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

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 The shares reported are held by the company in trust accounts for the economic benefit of the beneficiaries of those accounts. See also Items 2(a) above.

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

(a) The following certification shall be included if the statement is filed pursuant to section 240.13d-1(b):

> By signing below I certify that, to the best of  $\ensuremath{\mathsf{my}}$  knowledge and belief, the securities referred to above were acquired and are held in the ordinary course of business and were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.

(b) The following certification shall be included if the statement is filed pursuant to section 240.13d-1(c):

> By signing below I certify that, to the best of my knowledge and belief, the securities referred to above were not acquired and are not held for the purpose of or with the effect of changing or influencing the control of the issuer of the securities and were not acquired and are not held in connection with or as a participant in any transaction having that purpose 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.

Date
Signature
Robert J. Kamai Principal
 Name/Title