MICROSEMI CORP Form SC 13G/A February 09, 2009 CUSIP NO. 595137100

13G Page 1 of 14

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 6)*

MICROSEMI CORPORATION (Name of Issuer)

Common Stock, \$.20 par value (Title of Class of Securities)

595137100

(CUSIP Number)

December 31, 2008 (Date of Event Which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

- X Rule 13d-1(b)
- o Rule 13d-1(c)
- o Rule 13d-1(d)

*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).

CUSIP NO.	595137	100	13G	Page 2 of 14
1.	NAMES C	F REPORTING PERSONS.		
	Franklin R	esources, Inc.		
2.	СНЕСК Т	HE APPROPRIATE BOX IF A MEMBER OF A (GROUP	
	(a) (b) X			
3.	SEC USE	ONLY		
4.	CITIZENS	SHIP OR PLACE OF ORGANIZATION		
	Delaware			
NUMBER	OF SHAR	ES BENEFICIALLY OWNED BY EACH REPOR	TING PERSON WITH:	
	5.	SOLE VOTING POWER		
		(See Item 4)		
	6.	SHARED VOTING POWER		
		(See Item 4)		
	7.	SOLE DISPOSITIVE POWER		
		(See Item 4)		
	8.	SHARED DISPOSITIVE POWER		

(See Item 4)

9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	6,306,654
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES o
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	7.8%
12.	TYPE OF REPORTING PERSON
	HC, CO (See Item 4)

CUSIP NO.	595137	00	13G	Page 3 of 14
1.	NAMES C	F REPORTING PERSONS.		
	Charles B.	Johnson		
2.	СНЕСК Т	HE APPROPRIATE BOX IF A MEMBER OF A C	GROUP	
	(a) (b) X			
3.	SEC USE	ONLY		
4.	CITIZENS	HIP OR PLACE OF ORGANIZATION		
	USA			
NUMBER	OF SHAR	ES BENEFICIALLY OWNED BY EACH REPOR	TTING PERSON WITH:	
	5.	SOLE VOTING POWER		
		(See Item 4)		
	6.	SHARED VOTING POWER		
		(See Item 4)		
	7.	SOLE DISPOSITIVE POWER		
		(See Item 4)		

8. SHARED DISPOSITIVE POWER

	(See Item 4)
9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	6,306,654
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	7.8%
12.	TYPE OF REPORTING PERSON
	HC, IN (See Item 4)

CUSIP NO.	595137	100 13G	P	Page 4 of 14
1.	NAMES C	F REPORTING PERSONS.		
	Rupert H.	Johnson, Jr.		
2.	СНЕСК Т	HE APPROPRIATE BOX IF A MEMBER OF A GROU	P	
	(a) (b) X			
3.	SEC USE	ONLY		
4.	CITIZENS	SHIP OR PLACE OF ORGANIZATION		
	USA			
NUMBER	OF SHAR	ES BENEFICIALLY OWNED BY EACH REPORTING	PERSON WITH:	
	5.	SOLE VOTING POWER		
		(See Item 4)		
	6.	SHARED VOTING POWER		
		(See Item 4)		
	7.	SOLE DISPOSITIVE POWER		
		(See Item 4)		

8.

SHARED DISPOSITIVE POWER

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

6,306,654

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES
CERTAIN SHARES o

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

7.8%

12. TYPE OF REPORTING PERSON

HC, IN (See Item 4)

CUSIP NO.	595137100	13G	Page 5 of 14
1.	NAMES OF	F REPORTING PERSONS.	
	Franklin Ac	dvisers, Inc.	
2.	СНЕСК ТН	IE APPROPRIATE BOX IF A MEMBER OF A GROUP	
	(a) (b) X		
3.	SEC USE O	DNLY	
4.	CITIZENSI	HIP OR PLACE OF ORGANIZATION	
	California		
NUMBER (OF SHARES	BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH:	
	5.	SOLE VOTING POWER	
		5,664,030	
	6.	SHARED VOTING POWER	
		0	
	7.	SOLE DISPOSITIVE POWER	
		5,664,030	

SHARED DISPOSITIVE POWER

0

9. AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

5,664,030

10. CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES
CERTAIN SHARES o

11. PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

7.0%

12. TYPE OF REPORTING PERSON

IA, CO (See Item 4)

CUSIP NO.	59513710	00	13G	Page 6 of 14
Item 1.				
(a)	Name of Iss	uer		
	MICROSEI	MI CORPORATION		
(b)	Address of	ssuer's Principal Executive Offices		
	2381 Morse	Ave.		
	Irvine, CA			
Item 2.				
(a)	Name of Pe	rson Filing		
		F 111 F		
	(i):	Franklin Resources, Inc.		
	(ii):	Charles B. Johnson		
	(iii):	Rupert H. Johnson, Jr.		
	<i>(</i> ;)	E III Ali		
	(iv):	Franklin Advisers, Inc.		
(b)	Address of l	Principal Business Office or, if none, Residence		
	(i), (ii), and	(iii):		
	One Frankli			
	San Mateo,	CA 94403-1906		

	(iv):	One Franklin Parkway San Mateo, CA 94403-1906
(c)	Citizensh	nip
	(i):	Delaware
	(ii) and (i	iii): USA
	(iv):	California
(d)	Title of C	Class of Securities
	Common	s Stock, \$0.20 par value
(e)	CUSIP N	Jumber
	59513710	00

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- Item 3. If this statement is filed pursuant to §§240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:
 - (a) o Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
 - (b) o Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
 - (c) o Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c).
 - (d) o Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
 - (e) X An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
 - (f) o An employee benefit plan or endowment fund in accordance with \$240.13d-1(b)(1)(ii)(F);
 - (g) X A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
 - (h) o A savings associations as defined in Section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813);
 - (i) o 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 (15 U.S.C. 80a-3);
 - (j) o A non-U.S. institution in accordance with §240.13d-1(b)(ii)(J);
 - (k) o Group, in accordance with §240.13d 1(b)(1)(ii)(K).

Item 4. Ownership

The securities reported herein (the "Securities") are beneficially owned by one or more open- or closed-end investment companies or other managed accounts that are investment management clients of investment managers that are direct and indirect subsidiaries (each, an "Investment Management Subsidiary" and, collectively, the "Investment Management Subsidiaries") of Franklin Resources, Inc. ("FRI"), including the Investment Management Subsidiaries listed in Item 7. Investment management contracts grant to the Investment Management Subsidiaries all investment and/or voting power over the securities owned by such investment management clients, unless otherwise noted in this Item 4. Therefore, for purposes of Rule 13d-3 under the Act, the Investment Management Subsidiaries may be deemed to be the beneficial owners of the Securities.

Beneficial ownership by investment management subsidiaries and other affiliates of FRI is being reported in conformity with the guidelines articulated by the SEC staff in Release No. 34-39538 (January 12, 1998)

relating to organizations, such as FRI, where related entities exercise voting and investment powers over the securities being reported independently from each other. The voting and investment powers held by Franklin Mutual Advisers, LLC ("FMA"), an indirect wholly-owned Investment Management Subsidiary, are exercised independently from FRI and from all other Investment Management Subsidiaries (FRI, its affiliates and the Investment Management Subsidiaries other than FMA are collectively, "FRI affiliates"). Furthermore, internal policies and procedures of FMA and FRI establish informational barriers that prevent the flow between FMA and the FRI affiliates of information that relates to the voting and investment powers over the securities owned by their respective investment management clients. Consequently, FMA and the FRI affiliates report the securities over which they hold investment and voting power separately from each other for purposes of Section 13 of the Act.

Charles B. Johnson and Rupert H. Johnson, Jr. (the "Principal Shareholders") each own in excess of 10% of the outstanding common stock of FRI and are the principal stockholders of FRI. FRI and the Principal Shareholders may be deemed to be, for purposes of Rule 13d-3 under the Act, the beneficial owners of securities held by persons and entities for whom or for which FRI subsidiaries provide investment management services. The number of shares that may be deemed to be beneficially owned and the percentage of the class of which such shares are a part are reported in Items 9 and 11 of the cover pages for FRI and each of the Principal Shareholders. FRI, the Principal Shareholders and each of the Investment Management Subsidiaries disclaim any pecuniary interest in any of the Securities. In addition, the filing of this Schedule 13G on behalf of the Principal Shareholders, FRI and FRI affiliates, as applicable, should not be construed as an admission that any of them is, and each disclaims that it is, the beneficial owner, as defined in Rule 13d-3, of any of the Securities.

CUSIP NO. 595137100 13G Page 8 of 14 FRI, the Principal Shareholders, and each of the Investment Management Subsidiaries believe that they are not a "group" within the meaning of Rule 13d-5 under the Act and that they are not otherwise required to attribute to each other the beneficial ownership of the Securities held by any of them or by any persons or entities for whom or for which FRI subsidiaries provide investment management services. (a) Amount beneficially owned: 6,306,654 Percent of class: (b) 7.8% (c) Number of shares as to which the person has: Sole power to vote or to direct the vote Franklin Resources, Inc.: Charles B. Johnson: 0 Rupert H. Johnson, Jr.: Franklin Advisers, Inc.: 5,664,030 Franklin Templeton Portfolio Advisors, Inc.1: 491,824

Fiduciary Trust Company International:

38,700

	Fiduciary International, Inc.:	9,700
	Franklin Templeton Institutional, LLC:	0
(ii)	Shared power to vote or to direct the vote	
	0	
iii)	Sole power to dispose or to direct the disposition of	
	Franklin Resources, Inc.:	0
	Charles B. Johnson:	0
	Rupert H. Johnson, Jr.:	0
	Franklin Advisers, Inc.:	5,664,030
	Franklin Templeton Portfolio Advisors, Inc.:	491,824
	Franklin Templeton Institutional, LLC:	102,400
	Fiduciary Trust Company International:	38,700
	Fiduciary International, Inc.:	9,700
(iv)	Shared power to dispose or to direct the disposition of	

CUSIP NO	. 595137100	13G	Page 9 of 14
Item 5.	Ownership of Five Perce	nt or Less of a Class	
		led to report the fact that as of the date hereof the reporting he beneficial owner of more than five percent of the class of owing o. Not Applicable	
Item 6.	Ownership of More than	Five Percent on Behalf of Another Person	
	under the Investment Compa	Management Subsidiaries, including investment companies registered any Act of 1940 and other managed accounts, have the right to receive of dividends from, as well as the proceeds from the sale of, such this statement.	
Item 7.	Identification and Classificat By the Parent Holding Co	tion of the Subsidiary Which Acquired the Security Being Reported on ompany	
	See Attached Exhibit C (See also Item 4)		
Item 8.	Identification and Classif	ication of Members of the Group	
	Not Applicable (See also	Item 4)	
Item 9.	Notice of Dissolution of	Group	
	Not Applicable		

C	USIP NO.	595137100	13G	Page 10 of 14		
	Item 10.	Certification				
	By signing below I certify that, to the best of 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					
a	and were not acquired and are not held in connection with or as a participant in any transaction having that purpose or effect.					
Г	Γhis report sh	all not be construed as	an admission by the persons filing the report that they are the			
j	beneficial ow	ner of any securities co	overed by this report.			
			SIGNATURE			
		ole inquiry and to the be statement is true, compl	est of my knowledge and belief, I certify that the information set ete and correct.			
:	Dated:	February 2, 2009				
	Franklin Res	ources, Inc.				
,	Charles B. Jo	bhnson				
	Rupert H. Jol	hnson, Jr.				
Franklin A	Advisers, Inc					
	By:	/s/MARIA GRAY				
		Maria Gray				
		Secretary of Franklin	Resources, Inc.			
		Attorney-in-Fact for C	Charles B. Johnson pursuant to Power of Attorney attached to this			

Schedule 13G

Attorney-in-Fact for Rupert H. Johnson, Jr. pursuant to Power of Attorney attached to this Schedule 13G

Secretary of Franklin Advisers, Inc.

CUSIP N	NO. 595137100	13G	Page 11 of 14			
EXHIE	SIT A					
JOINT	JOINT FILING AGREEMENT					
hereby amendm	agree to the joint filing with eac	the Securities Exchange Act of 1934, as amended, the undersigned hother of the attached statement on Schedule 13G and to all such statement and all amendments to such statement are made on				
	TNESS WHEREOF, the unders ry 2, 2009.	igned have executed this agreement on				
Frankli	n Resources, Inc.					
Charles	B. Johnson					
Rupert	H. Johnson, Jr.					
Franklin Adviser	s, Inc					
By:	/s/MARIA GRAY					
	Maria Gray Secretary of Franklin Re	esources, Inc.				
	Attorney-in-Fact for Cha Schedule 13G	arles B. Johnson pursuant to Power of Attorney attached to this				
	Attorney-in-Fact for Rupo Schedule 13G	ert H. Johnson, Jr. pursuant to Power of Attorney attached to this				

Secretary of Franklin Advisers, Inc.

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EXHIBIT B

LIMITED POWER OF ATTORNEY FOR SECTION 13 REPORTING OBLIGATIONS

Know all by these presents, that the undersigned hereby makes, constitutes and appoints each of Robert Rosselot and Maria Gray, each acting individually, as the undersigned's true and lawful attorney-in-fact, with full power and authority as hereinafter described on behalf of and in the name, place and stead of the undersigned to:

- (1) prepare, execute, acknowledge, deliver and file Schedules 13D and 13G (including any amendments thereto or any related documentation) with the United States Securities and Exchange Commission, any national securities exchanges and Franklin Resources, Inc., a Delaware corporation (the "Reporting Entity"), as considered necessary or advisable under Section 13 of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, as amended from time to time (the "Exchange Act"); and
- (2) perform any and all other acts which in the discretion of such attorney-in-fact are necessary or desirable for and on behalf of the undersigned in connection with the foregoing.

The undersigned acknowledges that:

- this Limited Power of Attorney authorizes, but does not require, each such attorney-in-fact to act in their discretion on information provided to such attorney-in-fact without independent verification of such information;
- (2) any documents prepared and/or executed by either such attorney-in-fact on behalf of the undersigned pursuant to this Limited Power of Attorney will be in such form and will contain such information and disclosure as such attorney-in-fact, in his or her discretion, deems necessary or desirable;
- (3) neither the Reporting Entity nor either of such attorneys-in-fact assumes (i) any liability for the undersigned's responsibility to comply with the requirements of the Exchange Act or (ii) any liability of the undersigned for any failure to comply with such requirements; and
- (4) this Limited Power of Attorney does not relieve the undersigned from responsibility for compliance with the undersigned's obligations under the Exchange Act, including without limitation the reporting requirements under Section 13 of the Exchange Act.

The undersigned hereby gives and grants each of the foregoing attorneys-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary or appropriate to be done in and about the foregoing matters as fully to all intents and purposes as the undersigned might or could do if present, hereby ratifying all that each such attorney-in-fact of, for and on behalf of the undersigned, shall lawfully do or cause to be done by virtue of this Limited Power of Attorney. This Limited Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to each such attorney-in-fact. IN WITNESS WHEREOF, the undersigned has caused this Limited Power of Attorney to be executed as of this 30th day of <u>April</u> , 2007 /s/Charles B. Johnson Signature Charles B. Johnson Print Name

CUSIP NO. 595137100 13G Page 13 of 14

LIMITED POWER OF ATTORNEY FOR SECTION 13 REPORTING OBLIGATIONS

Know all by these presents, that the undersigned hereby makes, constitutes and appoints each of Robert Rosselot and Maria Gray, each acting individually, as the undersigned's true and lawful attorney-in-fact, with full power and authority as hereinafter described on behalf of and in the name, place and stead of the undersigned to:

- (1) prepare, execute, acknowledge, deliver and file Schedules 13D and 13G (including any amendments thereto or any related documentation) with the United States Securities and Exchange Commission, any national securities exchanges and Franklin Resources, Inc., a Delaware corporation (the "Reporting Entity"), as considered necessary or advisable under Section 13 of the Securities Exchange Act of 1934 and the rules and regulations promulgated thereunder, as amended from time to time (the "Exchange Act"); and
- (2) perform any and all other acts which in the discretion of such attorney-in-fact are necessary or desirable for and on behalf of the undersigned in connection with the foregoing.

The undersigned acknowledges that:

- this Limited Power of Attorney authorizes, but does not require, each such attorney-in-fact to act in their discretion on information provided to such attorney-in-fact without independent verification of such information;
- (2) any documents prepared and/or executed by either such attorney-in-fact on behalf of the undersigned pursuant to this Limited Power of Attorney will be in such form and will contain such information and disclosure as such attorney-in-fact, in his or her discretion, deems necessary or desirable;
- (3) neither the Reporting Entity nor either of such attorneys-in-fact assumes (i) any liability for the undersigned's responsibility to comply with the requirements of the Exchange Act or (ii) any liability of the undersigned for any failure to comply with such requirements; and
- (4) this Limited Power of Attorney does not relieve the undersigned from responsibility for compliance with the undersigned's obligations under the Exchange Act, including without limitation the reporting requirements under Section 13 of the Exchange Act.

The undersigned hereby gives and grants each of the foregoing attorneys-in-fact full power and authority to do and perform all and every act and thing whatsoever requisite, necessary or appropriate to be done in and about the foregoing matters as fully to all intents and purposes as the undersigned might or could do if present, hereby ratifying all that each such attorney-in-fact of, for and on behalf of the undersigned, shall lawfully do or cause to be done by virtue of this Limited Power of Attorney.

This Limited Power of Attorney shall remain in full force and effect until revoked by the undersigned in a signed writing delivered to each such attorney-in-fact.

IN WITNESS WHEREOF, the undersigned has caused this Limited Power of Attorney to be executed as of this $\underline{25th}$ day of \underline{April} , 2007

/s/ Rupert H. Johnson, Jr.

Signature

Rupert H. Johnson, Jr. Print Name

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EXHIBIT C				
Fiduciary Inte	ernational, Inc.		Item 3 Classification: 3(e)	
Fiduciary Trus	st Company International		Item 3 Classification: 3(b)	
Franklin Advi	isers, Inc.		Item 3 Classification: 3(e)	
Franklin Temp	pleton Institutional, LLC		Item 3 Classification: 3(e)	
Franklin Temp	pleton Portfolio Advisors, Inc.		Item 3 Classification: 3(e)	

Footnote to Schedule 13G	

Franklin Templeton Portfolio Advisors, Inc. ("FTPA") may beneficially own these securities pursuant to various separately managed account investment management arrangements. Under these arrangements, underlying clients may, from time to time, delegate to FTPA the power to vote such securities, in which case FTPA has sole voting power. To the extent that the underlying client retains voting power over any securities, FTPA disclaims any power to vote or direct the vote of such securities.