MICROSEMI CORP Form SC 13G/A January 25, 2010

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 7)*

MICROSEMI CORPORATION (Name of Issuer)

Common Stock, \$0.20 par value (Title of Class of Securities)

595137100 (CUSIP Number)

December 31, 2009 (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). 595	137100	13G	Page 2 of 13
1.	NAMES (OF REPORTING PERSONS.		
	Franklin R	desources, Inc.		
2.	СНЕСК Т	THE APPROPRIATE BOX IF A MEMBE	R OF A GROUP	
	(a) (b) X			
3.	SEC USE	ONLY		
4.	CITIZENS	SHIP OR PLACE OF ORGANIZATION		
	Delaware			
NUMBER	R OF SHA	RES BENEFICIALLY OWNED BY EAC	CH REPORTING PERSON WITH:	
	5.	SOLE VOTING POWER		
	6.	(See Item 4) 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
	764,114
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES 0
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.9%
12.	TYPE OF REPORTING PERSON
	HC, CO (See Item 4)

CUSIP N	O. 59:	513/100	13G	Page 3 of 13
1.	NAMES	OF REPORTING PERSONS.		
	Charles I	3. Johnson		
2.	CHECK	THE APPROPRIATE BOX IF A MEMBI	ER OF A GROUP	
	(a) (b) X			
3.	SEC USI	E ONLY		
4.	CITIZEN	NSHIP OR PLACE OF ORGANIZATION		
	USA			
NUMBE	IUMBER OF SHARES 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)		
	0	SHADED DISDOSITIVE DOWED		

(See Item 4)

9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	764,114
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES o
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.9%
12.	TYPE OF REPORTING PERSON
	HC, IN (See Item 4)

CUSIP NO	O. 595	5137100	13G	Page 4 of 13
1.	NAMES	OF REPORTING PERSONS.		
	Rupert H	. Johnson, Jr.		
2.	CHECK	THE APPROPRIATE BOX IF A MEMBE	ER OF A GROUP	
	(a) (b) X			
3.	SEC USI	E ONLY		
4.	CITIZEN	ISHIP OR PLACE OF ORGANIZATION		
	USA			
NUMBE	R OF SHA	ARES BENEFICIALLY OWNED BY EAC	CH 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		

(See Item 4)

9.	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON
	764,114
10.	CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES o
11.	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)
	0.9%
12.	TYPE OF REPORTING PERSON
	HC, IN (See Item 4)

CUSIP N	IO. 5951	137100	13G	Page 5 of 13
Item 1.				
(a)	Name of Is	ssuer		
	MICROSE	EMI CORPORATION		
(b)	Address of	f Issuer's Principal Executive Offices		
	2381 Mors Irvine, CA			
Item 2.				
(a)	Name of P	Person Filing		
	(i):	Franklin Resources, Inc.		
	(ii):	Charles B. Johnson		
	(iii):	Rupert H. Johnson, Jr.		
(b)	Address of	f Principal Business Office or, if none, Ro	esidence	
		din Parkway		
	San Mateo	o, CA 94403-1906		
(c)	Citizenshi	n		

	(i): Delaware (ii) and (iii): USA
(d)	Title of Class of Securities
	Common Stock, \$0.20 par value
(e)	CUSIP Number
	595137100

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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) o 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)