INPHI Corp Form SC 13G February 09, 2012

OMB APPROVAL

OMB Number: 3235-0145 Estimated average burden hours per response 11

UNITED STATES SECURITIES AND EXCHANGE COMMISSION Washington, D.C. 20549 SCHEDULE 13G Under the Securities Exchange Act of 1934 (Amendment No.) Inphi Corp. (Name of Issuer) Common Shares (Title of Class of Securities) 45772F107 (CUSIP Number) December 31, 2011 (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) Rule 13d-1(c) 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 disclosures provided in a prior cover page.

The information required on 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).

Potential persons who are to respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB control number. SEC 1745 (02-02)

1	NAME OF REPORTING PERSO IRS IDENTIFICATION NOS.	NS	/E PERSONS (ENTITIES ONLY)			
	RS Investment Managemen	t Co. LI	LC C			
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions) (a) / / (b) / /					
3	SEC USE ONLY					
4	CITIZENSHIP OR PLACE OF ORGANIZATION					
	Delaware					
	NUMBER OF SHARES	5	SOLE VOTING POWER			
	BENEFICIALLY OWNED BY EACH	6	SHARED VOTING POWER -1,356,826-			
	REPORTING PERSON WITH	7	SOLE DISPOSITIVE POWER			
		8	SHARED DISPOSITIVE POWER -1,448,118-			
9	AGGREGATE AMOUNT BENEFI -1,448,118-	CIALLY (	OWNED BY EACH REPORTING PERSON			
10 Instruc		AMOUNT I	IN ROW (9) EXCLUDES CERTAIN SHARES (See			
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.2%					
12	TYPE OF REPORTING PERSON (See Instructions) IA					

CUSIP No. 45772F107

13G

1 NAME OF REPORTING PERSONS

IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

	The Guardian Life I	nsurance C	ompany of America		
2	(a) / / (b) / /		A MEMBER OF A GROUP (See Instructions)		
3	SEC USE ONLY				
4	CITIZENSHIP OR PLAC	E OF ORGAN	IZATION		
	New York				
	NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH	5	SOLE VOTING POWER		
		6	SHARED VOTING POWER -1,356,826-		
		7	SOLE DISPOSITIVE POWER		
		8	SHARED DISPOSITIVE POWER -1,448,118-		
9	AGGREGATE AMOUNT BE	NEFICIALLY	OWNED BY EACH REPORTING PERSON		
10 Instr	CHECK IF THE AGGREG	ATE AMOUNT	IN ROW (9) EXCLUDES CERTAIN SHARES (See		
11	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.2%				
12	TYPE OF REPORTING P	TYPE OF REPORTING PERSON (See Instructions) IC, HC			

CUSIP	No. 45772F107 13G	
1	NAME OF REPORTING PERSONS IRS IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)	
	Guardian Investor Services LLC	
2	CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (See Instructions (a) / / (b) / /	)

	CITIZENSHIP OR PLACE OF Delaware	ORGANIZA	ATION	
	NUMBER OF SHARES		SOLE VOTING POWER -0-	
	BENEFICIALLY OWNED BY EACH	6	SHARED VOTING POWER -1,356,826-	
	REPORTING PERSON WITH	7	SOLE DISPOSITIVE POWER -0-	
		8	SHARED DISPOSITIVE POWER -1,448,118-	
	AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON -1,448,118-			
10 Instruct	CHECK IF THE AGGREGATE A		N ROW (9) EXCLUDES CERTAIN SHARES (See	
	PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9 5.2%			
	TYPE OF REPORTING PERSON (See Instructions) IA, BD, HC			

CUSIP No. 45772F107

13G

#### ITEM 1.

- (a) The name of the issuer is Inphi Corp. (the "Issuer").
- (b) The principal executive office of the Issuer is located at: 1154 Sonora Court, Sunnyvale, CA 94086.

#### ITEM 2.

- (a-c) See Annex I for information on the persons filing this statement (collectively, the "Filers")
  - (d) This statement relates to shares of common stock of the Issuer

(the "Stock").

(e) The CUSIP number of the Stock is 45772F107.

CUSIP No. 45772F107

13G

ITEM 3. If this statement is filed pursuant to rules 240.13d-1(b) or 240.13d-2(b) or (c), check whether the person filing is a:

- (a)  $\_X*\_$  Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o). \*Guardian Investor Services LLC is a registered investment adviser, a registered broker-dealer, and the parent company of RS Investment Management Co. LLC.
- (b) \_\_\_ Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c).
- (c)  $\_X*\_$  Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c). \*The Guardian Life Insurance Company of America is an insurance company and the parent company of Guardian Investor Services LLC and RS Investment Management Co. LLC.
- (d) \_\_\_\_ Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8).

An investment adviser in accordance with 240.13d-\_X\*\_ 1(b)(1)(ii)(E). \*RS Investment Management Co. LLC is a registered investment adviser. Guardian Investor Services LLC is a registered investment adviser, a registered broker-dealer, and the parent company of RS Investment Management Co. LLC. An employee benefit plan or endowment fund in accordance with 240.13d-1(b)(1)(ii)(F). A parent holding company or control person in accordance \_X\*\_ with 240.13d-1(b)(1)(ii)(G). \*The Guardian Life Insurance Company of America is an insurance company and the parent company of Guardian Investor Services LLC and RS Investment Management Co. LLC. Guardian Investor Services LLC is a registered investment adviser, a registered broker-dealer, and the parent company of RS Investment Management Co. LLC. 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 company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3).

CUSIP No. 45772F107

(j)

13G

Group, in accordance with rule 240.13d-1(b)(1)(ii)(J)

ITEM 4. OWNERSHIP

See Items 5-9 and 11 on the cover page for each Filer.

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 / /.

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

RS Investment Management Co. LLC is a registered investment adviser whose clients have the right to receive or the power to direct the receipt of dividends from, or the proceeds from the sale of, the Stock. No individual client's holdings of the Stock are more than five percent of the outstanding Stock.

The Guardian Life Insurance Company of America is an insurance company and the parent company of Guardian Investor Services LLC and RS Investment Management Co. LLC. Guardian Investor Services LLC is a registered investment adviser, a registered broker-dealer, and the parent company of

RS Investment Management Co. LLC.

CUSIP No. 45772F107

13G

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 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.

CUSIP No. 45772F107

13G

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.

Dated: January 1, 2012

RS INVESTMENT MANAGEMENT CO. LLC

By: /s/ Matthew Scanlan

Matthew Scanlan

Chief Executive Officer

THE GUARDIAN LIFE INSURANCE COMPANY OF AMERICA

By: /s/ Thomas G. Sorell

Thomas G. Sorell

Executive Vice President and Chief Investment Officer

GUARDIAN INVESTOR SERVICES LLC

By: /s/ Thomas G. Sorell

Thomas G. Sorell

Executive Vice President and Chief Investment Officer

CUSIP No. 45772F107

13G

EXHIBIT A

JOINT FILING AGREEMENT

The undersigned hereby agree that they are filing this statement jointly pursuant to Rule 13d-1(k) (1). Each of them is responsible for the timely filing of the Schedule 13G and any amendments thereto, and for the completeness and accuracy of the information concerning such person contained therein; but none of them is responsible for the completeness or accuracy of the information concerning the other persons making the filing, unless such person knows or has reason to believe that such information is inaccurate.

Dated: January 1, 2012

RS INVESTMENT MANAGEMENT CO. LLC

By: /s/ Matthew Scanlan

Matthew Scanlan

Chief Executive Officer

THE GUARDIAN LIFE INSURANCE COMPANY OF AMERICA

By: /s/ Thomas G. Sorell

Thomas G. Sorell

Executive Vice President and Chief Investment Officer

GUARDIAN INVESTOR SERVICES LLC

By: /s/ Thomas G. Sorell

Thomas G. Sorell

Executive Vice President and Chief Investment Officer

Annex I The filers are: I. RS Investment Management Co. LLC is a Delaware limited liability (a) Company. (b) registered investment adviser II. The Guardian Life Insurance Company of America is a New York mutual life insurance company. insurance company and parent company Guardian Investor Services LLC is a Delaware limited liability company. (a) registered investment adviser, registered broker-dealer, and parent (b)

13G

CUSIP No. 45772F107

company