INPHI Corp Form SC 13G November 08, 2012

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

SCHEDULE 13G (Rule 13d-102)

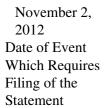
Information
Statement
Pursuant to
Rules 13d-1 and
13d-2
Under the
Securities
Exchange Act of
1934
(Amendment

Inphi Corporation (Name of Issuer)

No. ___)*

Common stock, par value \$0.001 per share (Title of Class of Securities)

45772F107 (CUSIP Number)



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

- " Rule 13d-1(b)
- x 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).

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NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON 1. Citadel Advisors LLC CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP 2. (a) " (b) " SEC USE ONLY 3. CITIZENSHIP OR PLACE OF 4. **ORGANIZATION Delaware SOLE VOTING POWER** 5. NUMBER OF 0 **SHARES** SHARED VOTING POWER **BENEFICIALLY** OWNED BY 6. 1,444,769 shares **EACH**

PERSON 7. SOLE DISPOSITIVE POWER

WITH 0

8. SHARED DISPOSITIVE POWER

See Row 6 above

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY EACH
PEROPTING PERSON

9. REPORTING PERSON

See Row 6 above

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

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

 $5.1\%^{1}$

12. TYPE OF REPORTING PERSON

IA; OO; HC

The percentages reported in this Schedule 13G are based upon 28,553,444 shares of common stock outstanding as of August 24, 2012 (according to the definitive Proxy Statement filed by the issuer on August 27, 2012).

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NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO.

1. OF ABOVE PERSON

Citadel Holdings II LP

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2. (a) ..

(b) "

SEC USE ONLY

3.

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

SOLE VOTING POWER

5.

NUMBER OF 0

SHARES

SHARED VOTING POWER

BENEFICIALLY

OWNED BY 6.

1,444,769 shares

EACH

PERSON 7. SOLE DISPOSITIVE POWER

WITH 0

8. SHARED DISPOSITIVE POWER

See Row 6 above

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY EACH

9. REPORTING PERSON

See Row 6 above

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

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

5.1%

12. TYPE OF REPORTING PERSON

PN; HC

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NAME OF REPORTING PERSON S.S. OR I.R.S. IDENTIFICATION NO. OF ABOVE PERSON Citadel Investment Group II, L.L.C.

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

- 2. (a) ..
 - (b) "

SEC USE ONLY

3.

4. CITIZENSHIP OR PLACE OF ORGANIZATION

Delaware

SOLE VOTING POWER

5.

NUMBER OF 0

SHARES

SHARED VOTING POWER

BENEFICIALLY

OWNED BY 6.

1,444,769 shares

EACH

PERSON 7. SOLE DISPOSITIVE POWER

WITH 0

8. SHARED DISPOSITIVE POWER

See Row 6 above.

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY EACH

9. REPORTING PERSON

See Row 6 above.

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES

10. CERTAIN SHARES "

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

5.1%

12. TYPE OF REPORTING PERSON

OO; HC

CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES "

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NAME OF REPORTING PERSON

S.S. OR I.R.S. IDENTIFICATION NO.

1. OF ABOVE PERSON

Kenneth Griffin

CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP

2. (a) ..

(b) "

SEC USE ONLY

3.

4. CITIZENSHIP OR PLACE OF ORGANIZATION

U.S. Citizen

SOLE VOTING POWER

5.

NUMBER OF 0

SHARES

SHARED VOTING POWER

BENEFICIALLY

OWNED BY 6.

1,444,769 shares

EACH

PERSON 7. SOLE DISPOSITIVE POWER

WITH 0

8. SHARED DISPOSITIVE POWER

See Row 6 above

AGGREGATE AMOUNT
BENEFICIALLY OWNED BY EACH

9. REPORTING PERSON

See Row 6 above

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

PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9)

11.

5.1%

12. TYPE OF REPORTING PERSON

IN; HC

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Item 1(a) Name of Issuer
Inphi Corporation
Item 1(b) Address of Issuer's Principal Executive Offices
3945 Freedom Circle, Suite 1100, Santa Clara, California 95054
Item 2(a) Name of Person Filing
This Schedule 13G is being jointly filed by Citadel Advisors LLC ("Citadel Advisors"), Citadel Holdings II LP ("CH-II"), Citadel Investment Group II, L.L.C. ("CIG-II") and Mr. Kenneth Griffin (collectively with Citadel Advisors, CH-II and CIG-II, the "Reporting Persons") with respect to shares of common stock of the above-named issuer owned by Citadel Global Equities Master Fund Ltd., a Cayman Islands limited company ("CG"), and certain segregated accounts.
Citadel Advisors is the portfolio manager for CG, and the investment manager for certain segregated accounts. CH-II is the managing member of Citadel Advisors. CIG-II is the general partner of CH-II. Mr. Griffin is the President and Chief Executive Officer of, and owns a controlling interest in, CIG-II.
The filing of this statement shall not be construed as an admission that any of the Reporting Persons is the beneficial owner of any securities covered by the statement other than the securities actually owned by such person (if any).
Item 2(b) Address of Principal Business Office
The address of the principal business office of each of the Reporting Persons is c/o Citadel LLC, 131 S. Dearborn Street, 32nd Floor, Chicago, Illinois 60603.
Item 2(c) Citizenship
Each of Citadel Advisors and CIG-II is organized as a limited liability company under the laws of the State of

Delaware. CH-II is organized as a limited partnership under the laws of the State of Delaware. Mr. Griffin is a U.S.

citizen.

Item 2(d) Title of Class of Securities
Common stock, \$0.001 par value
Item 2(e) CUSIP Number
45772F107
Item 3 If this statement is filed pursuant to Rules 13d-1(b), or 13d-2(b) or (c), check whether the person filing is a:
(a) [] Broker or dealer registered under Section 15 of the Exchange Act;
(b) [] Bank as defined in Section 3(a)(6) of the Exchange Act;

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(c) [_] Insurance company as defined in Section 3(a)(19) of the Exchange Act;
(d) [] Investment company registered under Section 8 of the Investment Company Act;
(e) [] An investment adviser in accordance with Rule 13d-1(b)(1)(ii)(E);
(f) [] An employee benefit plan or endowment fund in accordance with Rule 13d-1(b)(1)(ii)(F);
(g) [] A parent holding company or control person in accordance with Rule 13d-1(b)(1)(ii)(G);
(h) [] A savings association as defined in Section 3(b) of the Federal Deposit Insurance Act;
(i) [] A church plan that is excluded from the definition of an investment company under Section 3(c)(14) of the Investment Company Act;
(j) [] Group, in accordance with Rule 13d-1(b)(1)(ii)(J).
If filing as a non-U.S. institution in accordance with Rule 13d-1(b)(1)(ii)(J), please specify the type of institution:
Item 4 Ownership
A. Citadel Advisors LLC

(a) Citadel Advisors may be deemed to beneficially own 1,444,769 shares of Common Stock.
(b) The number of shares Citadel Advisors may be deemed to beneficially own constitutes approximately 5.1% of the Common Stock outstanding.
(c) Number of shares as to which such person has:
(i) sole power to vote or to direct the vote: 0
(ii) shared power to vote or to direct the vote: 1,444,769
(iii) sole power to dispose or to direct the disposition of: 0
(iv) shared power to dispose or to direct the disposition of: 1,444,769
B. Citadel Holdings II LP
(a) CH-II may be deemed to beneficially own 1,444,769 shares of Common Stock.
(b) The number of shares CH-II may be deemed to beneficially own constitutes approximately 5.1% of the Common Stock outstanding.

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(c) Number of shares as to which such person has:
(i) sole power to vote or to direct the vote: 0
(ii) shared power to vote or to direct the vote: 1,444,769
(iii) sole power to dispose or to direct the disposition of: 0
(iv) shared power to dispose or to direct the disposition of: 1,444,769
C. Citadel Investment Group II, L.L.C.
(a) CIG-II may be deemed to beneficially own 1,444,769 shares of Common Stock.
(b) The number of shares CIG-II may be deemed to beneficially own constitutes approximately 5.1% of the Common Stock outstanding.
(c) Number of shares as to which such person has:
(i) sole power to vote or to direct the vote: 0
(ii) shared power to vote or to direct the vote: 1,444,769
(iii) sole power to dispose or to direct the disposition of: 0
(iv) shared power to dispose or to direct the disposition of: 1,444,769
D. Kenneth Griffin

(a) Mr. Griffin may be deemed to beneficially own 1,444,769 shares of Common Stock.
(b) The number of shares Mr. Griffin may be deemed to beneficially own constitutes approximately 5.1% of the Common Stock outstanding.
(c) Number of shares as to which such person has:
(i) sole power to vote or to direct the vote: 0
(ii) shared power to vote or to direct the vote: 1,444,769
(iii) sole power to dispose or to direct the disposition of: 0
(iv) shared power to dispose or to direct the disposition of: 1,444,769
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 5 percent of the class of securities, check the following [_].
Item 6 Ownership of More than Five Percent on Behalf of Another Person
Not Applicable

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Item 7 Identification and Classification of the Subsidiary which Acquired the Security Being Reported on by the Parent Holding Company

See Item 2 above

Item 8 Identification and Classification of Members of the Group

Not Applicable

Item 9 Notice of Dissolution of Group

Item 10 Certification

Not Applicable

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.

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After reasonable inquiry and to the best of its knot forth in this statement is true, complete and correct	owledge and belief, the undersigned certify that the information set et.
Dated this 8 th day of November, 2012.	
CITADEL ADVISORS LLC	
	CITADEL HOLDINGS II LP
By: Citadel Holdings II LP,	
its Managing Member	By: Citadel Investment Group II, L.L.C.,
	its General Partner
By: Citadel Investment Group II, L.L.C.,	
its General Partner	By: /s/ John C. Nagel
	John C. Nagel, Authorized Signatory
By: /s/ John C. Nagel	
John C. Nagel, Authorized Signatory	
CITADEL INVESTMENT GROUP II, L.L.C.	KENNETH GRIFFIN
By: /s/ John C. Nagel	By: /s/ John C. Nagel
John C. Nagel, Authorized Signatory	John C. Nagel, attorney-in-fact*

John C. Nagel is signing on behalf of Kenneth Griffin as attorney-in-fact pursuant to a power of attorney previously *filed with the Securities and Exchange Commission on February 24, 2006, and hereby incorporated by reference herein. The power of attorney was filed as an attachment to a filing by Citadel Limited Partnership on Schedule 13G for Morgans Hotel Group Co.