

Fibrocell Science, Inc.
Form SC 13G
August 25, 2011

**SECURITIES AND EXCHANGE COMMISSION
Washington, D.C. 20549**

SCHEDULE 13G*

(Rule 13d-102)

**INFORMATION TO BE INCLUDED IN STATEMENTS FILED PURSUANT
TO §240.13d-1(b), (c) AND (d) AND AMENDMENTS THERETO FILED**

PURSUANT TO §240.13d-2

(Amendment No.)*

Fibrocell Science, Inc.

(Name of Issuer)

Common Stock, \$0.001 par value per share

(Title of Class of Securities)

315721100

(CUSIP Number)

August 22, 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:

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 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. 315721100

13G

Page 2 of 10 pages

(1)	Names of Reporting Persons		STEELHEAD PARTNERS, LLC
(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	(5) Sole Voting Power	9,714,032*
		(6) Shared Voting Power	0
	SHARES	(7) Sole Dispositive Power	9,714,032*
		(8) Shared Dispositive Power	0
	BENEFICIALLY		
	OWNED BY EACH		
	REPORTING		
	PERSON WITH		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person		9,714,032*
(10)	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		..
(11)	Percent of Class Represented by Amount in Row (9)		9.99%*
(12)	Type of Reporting Person (See Instructions)		IA

* Includes 2,441,305 shares of the issuer's common stock that may be issued to Steelhead Navigator (as defined below) upon the exercise of a certain warrant held by Steelhead Navigator.

CUSIP No. 315721100

13G

Page 3 of 10 pages

(1)	Names of Reporting Persons		JAMES MICHAEL JOHNSTON
(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		United States
	NUMBER OF	(5) Sole Voting Power	0
		(6) Shared Voting Power	9,714,032 *
	SHARES	(7) Sole Dispositive Power	0
		(8) Shared Dispositive Power	9,714,032*
	BENEFICIALLY		
	OWNED BY EACH		
	REPORTING		
	PERSON WITH		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person		9,714,032*
(10)	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		..
(11)	Percent of Class Represented by Amount in Row (9)		9.99%*
(12)	Type of Reporting Person (See Instructions)		IN/HC

* Includes 2,441,305 shares of the issuer's common stock that may be issued to Steelhead Navigator (as defined below) upon the exercise of a certain warrant held by Steelhead Navigator.

CUSIP No. 315721100

13G

Page 4 of 10 pages

(1)	Names of Reporting Persons		BRIAN KATZ KLEIN
(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		United States
	NUMBER OF	(5) Sole Voting Power	0
		(6) Shared Voting Power	9,714,032*
	SHARES	(7) Sole Dispositive Power	0
		(8) Shared Dispositive Power	9,714,032*
	BENEFICIALLY		
	OWNED BY EACH		
	REPORTING		
	PERSON WITH		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person		9,714,032*
(10)	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		..
(11)	Percent of Class Represented by Amount in Row (9)		9.99%*
(12)	Type of Reporting Person (See Instructions)		IN/HC

* Includes 2,441,305 shares of the issuer's common stock that may be issued to Steelhead Navigator (as defined below) upon the exercise of a certain warrant held by Steelhead Navigator.

CUSIP No. 315721100

13G

Page 5 of 10 pages

(1)	Names of Reporting Persons		STEELHEAD NAVIGATOR MASTER, L.P.
(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		Cayman Islands
	NUMBER OF	(5) Sole Voting Power	9,714,032*
		(6) Shared Voting Power	0
	SHARES	(7) Sole Dispositive Power	9,714,032*
		(8) Shared Dispositive Power	0
	BENEFICIALLY		
	OWNED BY EACH		
	REPORTING		
	PERSON WITH		
(9)	Aggregate Amount Beneficially Owned by Each Reporting Person		9,714,032*
(10)	Check if the Aggregate Amount in Row (9) Excludes Certain Shares (See Instructions)		..
(11)	Percent of Class Represented by Amount in Row (9)		9.99%*
(12)	Type of Reporting Person (See Instructions)		PN

* Includes 2,441,305 shares of the issuer's common stock that may be issued to Steelhead Navigator (as defined below) upon the exercise of a certain warrant held by Steelhead Navigator.

CUSIP No. 315721100

13G

Page 6 of 10 pages

Item 1(a). Name of Issuer:

Fibrocell Science, Inc.

Item 1(b). Address of Issuer's Principal Executive Offices:

405 Eagleview Boulevard

Exton, PA 19341

Item 2(a). Names of Persons Filing:

Steelhead Partners, LLC ("Steelhead")

James Michael Johnston

Brian Katz Klein

Steelhead Navigator Master, L.P. ("Steelhead Navigator")

Item 2(b). Address of Principal Business Office or, if none, Residence:

The principal business office of each reporting person other than Steelhead Navigator is:

333 108th Avenue NE, Suite 2010

Bellevue, WA 98004

The principal business office of Steelhead Navigator is:

c/o Citco Fund Services (Bermuda) Limited

Mintflower Place, 4th Floor

8 Par-La-Ville Road

Hamilton, Bermuda HM 08

Item 2(c). Citizenship:

Reference is made to Item 4 of pages 2, 3, 4 and 5 of this Schedule 13G (this "Schedule"), which Items are incorporated by reference herein.

Item 2(d). Title of Class of Securities:

Common Stock, \$0.001 par value per share.

Item 2(e). CUSIP Number:

315721100

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) Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o).
 - .. (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).
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CUSIP No. 315721100

13G

Page 7 of 10 pages

- .. (d) Investment company registered under Section 8 of the Investment Company Act of 1940 (15 U.S.C 80a-8).
- ý (e) An investment adviser in accordance with §240.13d-1(b)(1)(ii)(E);
- .. (f) An employee benefit plan or endowment fund in accordance with §240.13d-1(b)(1)(ii)(F);
- ý (g) A parent holding company or control person in accordance with §240.13d-1(b)(1)(ii)(G);
- .. (h) A savings associations 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 (15 U.S.C. 80a-3);
- .. (j) A non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J);
- .. (k) Group, in accordance with §240.13d-1(b)(1)(ii)(K).

If filing as a non-U.S. institution in accordance with §240.13d-1(b)(1)(ii)(J), please specify the type of institution:

Item 4. Ownership.

Reference is hereby made to Items 5-9 and 11 of pages 2, 3, 4 and 5 of this Schedule, which items are incorporated by reference herein.

Steelhead Navigator is the beneficial owner of 7,272,727 shares of the issuer's common stock, and is also the beneficial owner a warrant to purchase up to 2,545,455 shares of the issuer's common stock (the "Warrant"). The exercise of the Warrant is subject to certain restrictions (the "Ownership Limitations") that prohibit exercise to the extent that, after giving effect to such exercise, the holder of the Warrant (together with such holder's affiliates) would, as result of such exercise, beneficially own in excess of 9.99% of the total number of issued and outstanding shares of the issuer's common stock (including for such purposes the shares of the issuer's common stock issued upon exercise of the Warrant). The holder of the Warrant may, however, eliminate such Ownership Limitations with respect to the shares that would be issued upon exercise of the Warrant upon 61 days' prior notice to the issuer.

Based on an aggregate of 94,796,250 shares of common stock of the issuer outstanding as of August 22, 2011, as indicated in the issuer's press release dated August 22, 2011 and the issuer's Form 10-Q filed with the Securities and Exchange Commission on August 15, 2011, Steelhead Navigator has the right (consistent with the Ownership Limitations), as of August 22, 2011, to acquire up to 2,441,305 shares of the issuer's common stock through the exercise of the Warrant.

The securities reported on this Schedule as beneficially owned by Steelhead (the "Securities") are held by and for the benefit of Steelhead Navigator. Steelhead, as the investment manager of Steelhead Navigator, and each of J. Michael Johnston and Brian K. Klein, as the member-managers of Steelhead, may be deemed to beneficially own the

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Securities owned by Steelhead Navigator for the purposes of Rule 13d-3 of the Act, insofar as they may be deemed to have the power to direct the voting or disposition of those Securities.

CUSIP No. 315721100

13G

Page 8 of 10 pages

Neither the filing of this Schedule nor any of its contents shall be deemed to constitute an admission that any of Steelhead, Mr. Johnston or Mr. Klein is, for any other purpose, the beneficial owner of any of the Securities, and each of Steelhead, Mr. Johnston and Mr. Klein disclaims beneficial ownership as to the Securities, except to the extent of his or its pecuniary interests therein.

Under the definition of "beneficial ownership" in Rule 13d-3 under the Act, it is also possible that the individual general partners, executive officers, and members of the foregoing entities might be deemed the "beneficial owners" of some or all of the Securities insofar as they may be deemed to share the power to direct the voting or disposition of such Securities. Neither the filing of this Schedule nor any of its contents shall be deemed to constitute an admission that any of such individuals is, for any purpose, the beneficial owner of any of the Securities, and such beneficial ownership is expressly disclaimed.

The calculation of percentage of beneficial ownership in Item 11 of pages 2, 3, 4 and 5 was derived from the issuer's press release dated August 22, 2011 and the issuer's Form 10-Q filed with the Securities and Exchange Commission on August 15, 2011, which together indicate that the number of shares of common stock outstanding as of August 22, 2011 was 94,796,250 shares.

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.

Not applicable.

Item 7. Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on By the Parent Holding Company or Control Person.

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. Certifications.

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. 315721100

13G

Page 9 of 10 pages

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: August 25, 2011

STEELHEAD PARTNERS, LLC

By: /s/ James Michael Johnston

James Michael Johnston
Its Member-Manager

JAMES MICHAEL JOHNSTON

/s/ James Michael Johnston
James Michael Johnston

BRIAN KATZ KLEIN

/s/ Brian Katz Klein

Brian Katz Klein

CUSIP No. 315721100

13G

Page 10 of 10 pages

Item 10. Certifications.

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.

Dated: August 25, 2011

STEELHEAD NAVIGATOR MASTER, L.P.

By: Steelhead Partners, LLC, its Investment Manager

By: /s/ James Michael Johnston

James Michael Johnston

Its Member-Manager

EXHIBIT LIST

Exhibit A

Joint Filing Undertaking

EXHIBIT A

JOINT FILING UNDERTAKING

The undersigned, being authorized thereunto, hereby execute this agreement as an exhibit to this Schedule 13G to evidence the agreement of the below-named parties, in accordance with rules promulgated pursuant to the Securities Exchange Act of 1934, to file this Schedule, as it may be amended, jointly on behalf of each of such parties.

Dated: August 25, 2011

STEELHEAD PARTNERS, LLC

By: /s/ James Michael Johnston

James Michael Johnston
Its Member-Manager

STEELHEAD NAVIGATOR MASTER, L.P.

By: Steelhead Partners, LLC, its Investment Manager

By: /s/ James Michael Johnston

James Michael Johnston
Its Member-Manager

JAMES MICHAEL JOHNSTON

/s/ James Michael Johnston
James Michael Johnston

BRIAN KATZ KLEIN

/s/ Brian Katz Klein
Brian Katz Klein