

Ignyta, Inc.  
Form SC 13G  
May 09, 2016

---

SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13G

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

Ignyta, Inc.  
(Name of Issuer)

Common Stock, par value \$0.0001 per share  
(Title of Class of Securities)

451731103  
(CUSIP Number)

April 29, 2016  
(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. 451731103

13G

Page 2 of 8 Pages

1 NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

TANG CAPITAL PARTNERS, LP

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES

6 SHARED VOTING POWER

3,972,800

BENEFICIALLY  
OWNED BY

7 SOLE DISPOSITIVE POWER

EACH REPORTING  
PERSON WITH

0

8 SHARED DISPOSITIVE POWER

3,972,800

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON

3,972,800

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

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.6%

12 TYPE OF REPORTING PERSON

PN

CUSIP No. 451731103

13G

Page 3 of 8 Pages

1 NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

TANG CAPITAL MANAGEMENT, LLC

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

DELAWARE

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES

6 SHARED VOTING POWER

BENEFICIALLY  
OWNED BY

3,972,800

EACH REPORTING  
PERSON WITH

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

3,972,800

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING  
PERSON

3,972,800

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

..

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.6%

12 TYPE OF REPORTING PERSON

OO

CUSIP No. 451731103

13G

Page 4 of 8 Pages

1 NAMES OF REPORTING PERSONS  
I.R.S. IDENTIFICATION NOS. OF ABOVE PERSONS (ENTITIES ONLY)

KEVIN C. TANG

2 CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP\* (a)   
(b)

3 SEC USE ONLY

4 CITIZENSHIP OR PLACE OF ORGANIZATION

UNITED STATES

5 SOLE VOTING POWER

0

NUMBER OF  
SHARES  
BENEFICIALLY  
OWNED BY  
EACH REPORTING  
PERSON WITH

6 SHARED VOTING POWER

3,972,800

7 SOLE DISPOSITIVE POWER

0

8 SHARED DISPOSITIVE POWER

3,972,800

9 AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON

3,972,800

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

11 PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW 9

9.6%

12 TYPE OF REPORTING PERSON

IN

Item 1(a). Name of Issuer:

Ignyta, Inc., a Delaware corporation (the "Issuer")

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

11111 Flintkote Avenue, San Diego, CA, 92121

Item 2(a). Name of Person Filing:

This Statement on Schedule 13G (this "Statement") is filed by Tang Capital Partners, LP ("Tang Capital Partners"); Tang Capital Management, LLC, the general partner of Tang Capital Partners ("Tang Capital Management"); and Kevin C. Tang, the manager of Tang Capital Management.

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

4747 Executive Drive, Suite 510, San Diego, CA 92121

Item 2(c). Citizenship:

Tang Capital Partners is a Delaware limited partnership. Tang Capital Management is a Delaware limited liability company. Mr. Tang is a United States citizen.

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

Common Stock, par value \$0.0001 per share (the "Common Stock")

Item 2(e). CUSIP Number: 451731103

Item 3. Not applicable.

Item 4. Ownership.

(a) Amount Beneficially Owned:

Tang Capital Partners. Tang Capital Partners is the beneficial owner of 3,972,800 shares of the Issuer's Common Stock.

Tang Capital Partners shares voting and dispositive power over such shares with Tang Capital Management and Kevin C. Tang.

Tang Capital Management. Tang Capital Management, as the general partner of Tang Capital Partners, may be deemed to beneficially own the shares of the Issuer's Common Stock beneficially owned by Tang Capital Partners.

Kevin C. Tang. Kevin C. Tang, as manager of Tang Capital Management, may be deemed to beneficially own the shares of the Issuer's Common Stock beneficially owned by Tang Capital Partners.

Mr. Tang disclaims beneficial ownership of all shares reported herein except to the extent of his pecuniary interest therein.

Page 5 of 8 Pages

---

The percentages used herein are based upon 41,566,670 shares of Common Stock outstanding (32,366,670 shares outstanding as of March 31, 2016, as set forth in the Issuer's Prospectus Supplement on Form 424B5 that was filed with the Securities and Exchange Commission ("SEC") on April 29, 2016, plus 9,200,000 shares of Common Stock issued pursuant to the Issuer's underwritten public offering as described in the Issuer's Current Report on Form 8-K that was filed with the SEC on April 29, 2016).

(b) Percent of Class:

Tang Capital Partners	9.6%
Tang Capital Management	9.6%
Kevin C. Tang	9.6%

(c) Number of shares as to which such person has:

(i) sole power to vote or to direct the vote:

Tang Capital Partners	0 shares
Tang Capital Management	0 shares
Kevin C. Tang	0 shares

(ii) shared power to vote or to direct the vote:

Tang Capital Partners	3,972,800 shares
Tang Capital Management	3,972,800 shares
Kevin C. Tang	3,972,800 shares

(iii) sole power to dispose or to direct the disposition of:

Tang Capital Partners	0 shares
Tang Capital Management	0 shares
Kevin C. Tang	0 shares

(iv) shared power to dispose or to direct the disposition of:

Tang Capital Partners	3,972,800 shares
Tang Capital Management	3,972,800 shares
Kevin C. Tang	3,972,800 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.

Not applicable.

Item 8. Identification and Classification of Members of the Group.

Not applicable.

Page 6 of 8 Pages

---

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 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.

Page 7 of 8 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.

Date: May 9, 2016

TANG CAPITAL PARTNERS, LP

By: Tang Capital Management, LLC, its General Partner

By: /s/ Kevin C. Tang  
Kevin C. Tang, Manager

TANG CAPITAL MANAGEMENT, LLC

By: /s/ Kevin C. Tang  
Kevin C. Tang, Manager

/s/ Kevin C. Tang  
Kevin C. Tang

Page 8 of 8 Pages

---