

Ignyta, Inc.  
Form SC 13G/A  
February 14, 2018

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SECURITIES AND EXCHANGE COMMISSION  
Washington, DC 20549

SCHEDULE 13G/A

Under the Securities Exchange Act of 1934  
(Amendment No. 1)\*

Ignyta, Inc.  
(Name of Issuer)

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

451731103  
(CUSIP Number)

December 31, 2017  
(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)

ý 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).



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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 NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH

SOLE VOTING POWER

0

6 SHARED VOTING POWER

1,390,802

7 SOLE DISPOSITIVE POWER

0

8

SHARED DISPOSITIVE POWER

1,390,802

9 AGGREGATE AMOUNT BENEFICIALLY OWNED

BY EACH REPORTING  
PERSON

1,390,802

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

11 PERCENT OF CLASS  
REPRESENTED BY  
AMOUNT IN ROW 9

2.1%

12 TYPE OF REPORTING  
PERSON

PN

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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

|   |   |                          |
|---|---|--------------------------|
| NUMBER OF   | 5 | SOLE VOTING POWER        |
|   |   | 0                        |
| SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 6 | SHARED VOTING POWER      |
|   |   | 1,390,802                |
|   | 7 | SOLE DISPOSITIVE POWER   |
|   |   | 0                        |
|   | 8 | SHARED DISPOSITIVE POWER |
|   |   | 1,390,802                |

9 AGGREGATE AMOUNT BENEFICIALLY OWNED

BY EACH REPORTING  
PERSON

1,390,802

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

11 PERCENT OF CLASS  
REPRESENTED BY  
AMOUNT IN ROW 9

2.1%

12 TYPE OF REPORTING  
PERSON

OO

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NAMES OF REPORTING PERSONS

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

1

KEVIN C. TANG

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

2

SEC USE ONLY

3

CITIZENSHIP OR PLACE OF ORGANIZATION

4

UNITED STATES

|                              |   |   |
|------------------------------|---|---|
| NUMBER OF                    | 5 | SOLE VOTING POWER                                     |
|                              |   | 0   |
| SHARES BENEFICIALLY OWNED BY | 6 | SHARED VOTING POWER                                   |
|                              |   | 1,390,802   |
| EACH REPORTING PERSON WITH   | 7 | SOLE DISPOSITIVE POWER                                |
|                              |   | 0   |
|                              | 8 | SHARED DISPOSITIVE POWER                              |
|                              |   | 1,390,802   |
| 9                            |   | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING |

PERSON

1,390,802

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

11 PERCENT OF CLASS  
REPRESENTED BY  
AMOUNT IN ROW 9

2.1%

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 1,390,802 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.



The percentages used herein are based upon 67,656,026 shares of Common Stock outstanding, as set forth in the Issuer's SC 14D-9 that was filed with the Securities and Exchange Commission ("SEC") on January 10, 2018.

(b) Percent of Class:

|                         |      |
|-------------------------|------|
| Tang Capital Partners   | 2.1% |
| Tang Capital Management | 2.1% |
| Kevin C. Tang           | 2.1% |

(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   | 1,390,802 shares |
| Tang Capital Management | 1,390,802 shares |
| Kevin C. Tang           | 1,390,802 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   | 1,390,802 shares |
| Tang Capital Management | 1,390,802 shares |
| Kevin C. Tang           | 1,390,802 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.

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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.

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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: February 14, 2018

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

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