Kuhlen Christian V Form 4 December 22, 2017

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF

SECURITIES

OMB

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OMB APPROVAL

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Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934, obligations Section 17(a) of the Public Utility Holding Company Act of 1935 or Section may continue. 30(h) of the Investment Company Act of 1940 See Instruction

(Print or Type Responses)

1(b).

1. Name and Address of Reporting Person * 5. Relationship of Reporting Person(s) to 2. Issuer Name and Ticker or Trading Kuhlen Christian V Issuer Symbol Ignyta, Inc. [RXDX] (Check all applicable) (First) (Middle) (Last) 3. Date of Earliest Transaction (Month/Day/Year) Director 10% Owner X_ Officer (give title _ Other (specify C/O IGNYTA, INC., 4545 TOWNE 12/22/2017 below) CENTRE COURT General Counsel and Secretary (Street) 4. If Amendment, Date Original 6. Individual or Joint/Group Filing(Check Filed(Month/Day/Year) Applicable Line)

SAN DIEGO, CA 92121

(City)	(State)	Zip) Table	e I - Non-D	erivative Sec	urities Acq	quired, Disposed	of, or Beneficial	ly Owned	
1.Title of Security	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if			s Acquired osed of	5. Amount of Securities	1		
(Instr. 3)		any	Code	(D)		Beneficially	(D) or	Beneficial	
		(Month/Day/Year)	(Instr. 8)	(Instr. 3, 4 a	ind 5)	Owned	Indirect (I)	Ownership	
						Following	(Instr. 4)	(Instr. 4)	
					/ A N	Reported			
					(A)	Transaction(s)			
			Code V		or (D) Price	(Instr. 3 and 4)			
Common Stock	12/22/2017		A	23,334 (1)	A \$0	23,334	D		

Reminder: Report on a separate line for each class of securities beneficially owned directly or indirectly.

Persons who respond to the collection of SEC 1474 information contained in this form are not (9-02)required to respond unless the form displays a currently valid OMB control number.

X Form filed by One Reporting Person Form filed by More than One Reporting

Person

Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)

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	2.	3. Transaction Date		4.	5.	6. Date Exerc		7. Titl		8. Price of	9. Nu
Derivative Security (Instr. 3)	Conversion or Exercise Price of Derivative Security	(Month/Day/Year)	Execution Date, if any (Month/Day/Year)	Transact Code (Instr. 8)	orNumber of Derivativ Securities Acquired (A) or Disposed of (D) (Instr. 3, 4, and 5)	:		Amou Under Securi (Instr.	lying	Derivative Security (Instr. 5)	Deriv Secur Bene Own Follo Repo Trans (Instr
				Code V	(A) (D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares		

Reporting Owners

Reporting Owner Name / Address Relationships

Director 10% Owner Officer Other

Kuhlen Christian V C/O IGNYTA, INC. 4545 TOWNE CENTRE COURT SAN DIEGO, CA 92121

General Counsel and Secretary

Signatures

/s/ Christian 12/22/2017 Kuhlen

**Signature of Date Reporting Person

Explanation of Responses:

- * If the form is filed by more than one reporting person, see Instruction 4(b)(v).
- ** Intentional misstatements or omissions of facts constitute Federal Criminal Violations. See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

Represents the grant of restricted stock units to the Reporting Person. Each restricted stock unit represents a contingent right to receive (1) one share of the Issuer's common stock. The restricted stock units will vest as to 25% of the shares underlying each award on each anniversary of the Grant Date, subject to the Reporting Person's continues service with the Company through the vesting date.

Note: File three copies of this Form, one of which must be manually signed. If space is insufficient, *see* Instruction 6 for procedure. 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 number.

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