SEC For	m 4 FORM	4	UNITED) STA	TE	s s	ECURITIE	S	AND E	XC	CHAN	GE CO	оммі	SSIOI	N					
			Washington, D.C. 20549											Γ			OMB APPROVAL			
Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).			STATEMENT OF CHANGES IN BENEFICIAL OWNE Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940											RSHIP			Number ated ave per res	erage burde	3235-0287 n 0.5	
	nd Address of LSON JC	*			2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN]							(Ch	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) X Director 10% Owner Officer (give title Other (spec					wner		
	(Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY					3. Date of Earliest Transaction (Month/Day/Year) 03/31/2020									cer (gi w)	ve title		Other (: below)	specify	
					4.	4. If Amendment, Date of Original Filed (Month/Day/Year)								6. Individual or Joint/Group Filing (Check Applicable Line)						
(Street) WOBURN MA 01801					X Form filed by One Reporting Person Form filed by More than One Reporting Person															
(City)	(5	State)	(Zip)																	
		Ta	ble I - Nor	n-Deriv	/ativ	ve Se	ecurities Acq	lnin	red, Dis	pos	sed of,	or Ben	eficial	y Own	ed					
Dat			Date	2. Transaction Date (Month/Day/Year)		2A. Deemed Execution Date, if any (Month/Day/Year)		3. Transaction Code (Instr. 8)		4. Securities Acquired (A) Disposed Of (D) (Instr. 3, 4) or 4 and 5) Securities Beneficially Owned Fol Reported		,	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)		7. Nature of Indirect Beneficial Ownership		
									Code V	An	mount	(A) or (D)	Price	Tropposition					(Instr. 4)	
							curities Acqu Is, warrants,							Owned	k					
1. Title of Derivative Security (Instr. 3) 2. 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution D if any (Month/Day/Year) 0 Security Price of Derivative Security 3. Transaction Date (Month/Day/Year) 3A. Deemed Execution D if any (Month/Day			Code (Instr.			5. Number of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)	6. Date Exercisable and Expiration Date (Month/Day/Year)				7. Title an Amount o Securities Underlyin Derivative (Instr. 3 ar	f g Security	Derivative Security (Instr. 5) F		D. Number of derivative Securities Beneficially Dwned Following Reported Fransaction(s)		10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4	11. Nature of Indirect Beneficial Ownershij (Instr. 4)		
											I		Amoun	t		Instr. 4)	,			

Date Exercisable

03/31/2020

(D)

Expiration Date

03/31/2030

Title

Common

Stock

Explanation of Responses:
1. These options were issued to the Reporting Person pursuant to the Issuer's Director Compensation Policy in lieu of \$7,500 of cash compensation for services rendered to the Issuer as a member of its Board of Directors and/or a committee thereof during the first quarter of 2020.
2. All share numbers reported reflect the 1-for-40 reverse stock split effected on January 15, 2020.

<u>/s/ Megan N. Gates, attorney-in-</u> <u>fact</u> 04/02/2020

\$3.5

2,142

D

** Signature of Reporting Person Date

Amount or Number of

Shares

2,142

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

* If the form is filed by more than one reporting person, see Instruction 4 (b)(v).

03/31/2020

Stock Option (right to buy)

\$3.77

** Intentional misstatements or omissions of facts constitute Federal Criminal Violations See 18 U.S.C. 1001 and 15 U.S.C. 78ff(a).

v

(A)

2,142⁽¹⁾⁽²⁾

Code

A

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

Persons who respond to the collection of information contained in this form are not required to respond unless the form displays a currently valid OMB Number.