FORM 4

UNITED STATES SECURITIES AND EXCHANGE COMMISSION

Washington,	D.C.	20549

Check this box if no longer subject to
Section 16. Form 4 or Form 5
obligations may continue. See
notruction 1/h)

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

OMB Number: 3235-0287

Estimated average burden hours per response: 0.5

Filed pursuant to Section 16(a) of the Securities Exchange Act of 1934 or Section 30(h) of the Investment Company Act of 1940

1. Name and Address of Reporting Person* Snell Kristi (Last) (First) (Middle) C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY (Street)						2. Issuer Name and Ticker or Trading Symbol YIELD10 BIOSCIENCE, INC. [YTEN] 3. Date of Earliest Transaction (Month/Day/Year) 02/11/2020 4. If Amendment, Date of Original Filed (Month/Day/Year)									5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director 10% Owner X Officer (give title Other (specify below) VP Research & CSO 6. Individual or Joint/Group Filing (Check Applicab Line) X Form filed by One Reporting Person				
(City))1801 Zip)			Form filed by One Reporting Person Form filed by More than One Reporting Person													
Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned																			
1. Title of Security (Instr. 3) 2. Transa Date (Month/D				Execution Date,		Code (Transaction Di		Securities Acquired (A) sposed Of (D) (Instr. 3,			4 and Secu Bene Owne		cially I Following	6. Ownership Form: Direct (D) or Indirec (I) (Instr. 4)	Ownership			
							Code	v	Amount	(A) or (D)		Price	, т	Reported Transaction(s) (Instr. 3 and 4)			(Instr. 4)		
Common Stock 02/11/				1/2020	2020		A		4,000	1)	A	\$	0	4,112(2)		D			
Common Stock														985(2)(3)		I	By 401(k) Plan		
Table II - Derivative Securities Acquired, Disposed of, or Beneficially Owned (e.g., puts, calls, warrants, options, convertible securities)																			
1. Title of Derivative Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Transaction Date (Month/Day/Year)	3A. Deem Execution if any (Month/Da	Date,	4. Transaction Code (Instr. 8)		of Derivative Securities Acquired (A) or Disposed of (D) (Instr. 3, 4 and 5)				•	Amount of Securities Underlying Derivative Security (Instr. and 4)		ount nber	t		9. Number of derivative Securities Beneficially Owned Following Reported Transaction (Instr. 4)	Ownershi Form: Direct (D) or Indirec (I) (Instr. 4	Beneficial Ownership (Instr. 4)

Explanation of Responses:

- 1. The securities awarded are in the form of restricted stock units ("RSUs"). Each RSU represents a contingent right to receive one share of the Issuer's common stock. The RSUs will vest as to 50% of the shares on 8/11/20 and the remaining 50% on 2/11/21.
- 2. All share numbers reported reflect the 1-for-40 reverse stock split effected on January 15, 2020.
- 3. Shares acquired as Company matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

/s/ Megan N. Gates, attorney-

02/13/2020

in-fact

** Signature of Reporting Person Date

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