FORM 4

Check this box if no longer subject

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

STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

OMB APPROVAL

0	OMB APPROVAL									
OMB N	OMB Number: 3235-0287									
Estimate	Estimated average burden									
	er response									

		Table I - Non-De	erivative Securities Acquired. Disposed of. or Bene	ficially Owned					
(City)	(State)	(Zip)	—	Person					
(Street) WOBURN	MA	01801	4. If Amendment, Date of Original Filed (Month/Day/Year)	Line) X Form filed	nt/Group Filing (Check Applicable I by One Reporting Person I by More than One Reporting				
C/O YIELD10 BIOSCIENCE, INC. 19 PRESIDENTIAL WAY			09/01/2021	VP Research & CSO					
(Last)	(First)	(Middle)	3. Date of Earliest Transaction (Month/Day/Year)	- X Officer (gi below)	below)				
1. Name and Add Snell Kristi		g Person [*]	2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC.</u> [YTEN]	5. Relationship of F (Check all applicat Director	Reporting Person(s) to Issuer ble) 10% Owner				
to Section 16	5. Form 4 or Form 5 ay continue. See b).		Filed pursuant to Section 16(a) of the Securities Exchange Act of 193 or Section 30(h) of the Investment Company Act of 1940	4	Estimated average burden hours per response: 0.5				

Table I - Non-Derivative Securities Acquired, Disposed of, or Beneficially Owned

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	Execution Date, Transaction Disposed Of (D) (Instr. 3			5. Amount of Securities Beneficially Owned Following	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership			
			Code	v	Amount (A) or (D)		Price	Reported Transaction(s) (Instr. 3 and 4)		(Instr. 4)
Common Stock	09/01/2021		F		351(1)	D	\$6.71	4,872	D	
Common Stock								4,385 ⁽²⁾	Ι	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. Deemed Execution Date, if any (Month/Day/Year)	4. Transa Code (8)		of		6. Date Exerc Expiration Da (Month/Day/Y	7. Title and Amount of Securities Underlying Derivative Security (Instr. 3 and 4)		8. Price of Derivative Security (Instr. 5)	9. Number of derivative Securities Beneficially Owned Following Reported Transaction(s) (Instr. 4)	10. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	11. Nature of Indirect Beneficial Ownership (Instr. 4)	
				Code	v	(A)	(D)	Date Exercisable	Expiration Date	Title	Amount or Number of Shares				

Explanation of Responses:

1. Represents shares withheld in payment of withholding taxes upon partial vesting of RSUs granted 3/1/2021.

2. Shares acquired as Company matching contributions under the Yield10 Bioscience, Inc. 401(k) Plan.

/s/ Megan N. Gates, attorney-09/03/2021

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.