

OMB APPROVAL	
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP

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

Check this box if no longer subject to Section 16. Form 4 or Form 5 obligations may continue. See Instruction 1(b).

1. Name and Address of Reporting Person* <u>SCHULER JACK W</u> (Last) (First) (Middle) 100 N. FIELD DRIVE SUITE 360 (Street) LAKE FOREST IL 60045 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol <u>YIELD10 BIOSCIENCE, INC. [YTEN]</u>	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) Director <input checked="" type="checkbox"/> 10% Owner Officer (give title below) Other (specify below)
	3. Date of Earliest Transaction (Month/Day/Year) 05/05/2023	
	4. If Amendment, Date of Original Filed (Month/Day/Year)	
Rule 10b5-1(c) Transaction Indication <input type="checkbox"/> Check this box to indicate that a transaction was made pursuant to a contract, instruction or written plan that is intended to satisfy the affirmative defense conditions of Rule 10b5-1(c). See Instruction 10.		

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

1. Title of Security (Instr. 3)	2. Transaction Date (Month/Day/Year)	2A. Deemed Execution Date, if any (Month/Day/Year)	3. Transaction Code (Instr. 8)		4. Securities Acquired (A) or Disposed Of (D) (Instr. 3, 4 and 5)			5. Amount of Securities Beneficially Owned Following Reported Transaction(s) (Instr. 3 and 4)	6. Ownership Form: Direct (D) or Indirect (I) (Instr. 4)	7. Nature of Indirect Beneficial Ownership (Instr. 4)
			Code	V	Amount	(A) or (D)	Price			
Common Stock	05/05/2023		P		335,570 ⁽¹⁾	A	\$2.98 ⁽¹⁾	962,956	I	By Jack W. Schuler Living Trust ⁽²⁾

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. Transaction Code (Instr. 8)		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 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
Common Stock Warrants	\$2.98	05/05/2023		P		335,570		11/05/2023	11/05/2028	Common Stock	335,570 ⁽³⁾	\$2.98 ⁽³⁾	335,570	I	By Jack W. Schuler Living Trust ⁽²⁾

Explanation of Responses:

- The reported securities comprise 335,570 shares of Common Stock purchased from the Issuer by the Jack W. Schuler Living Trust on May 5, 2023 for \$2.98 per share, pursuant to a Securities Purchase Agreement, dated May 3, 2023 (the "Purchase Agreement"), by and among the Issuer and certain investors named therein (the "Investors").
- Jack W. Schuler is the sole trustee of the Jack W. Schuler Living Trust (the "Living Trust"), and in such capacity may be deemed to beneficially own the Common Stock and Warrants held by the Living Trust.
- In a concurrent private placement effected pursuant to the Purchase Agreement, on May 5, 2023 the Issuer issued to the Investors Warrants to purchase one share of Common Stock at an exercise price of \$2.98 per share for each share of Common Stock purchased pursuant to the Purchase Agreement. The reported securities comprise 335,570 Warrants so issued to the Jack W. Schuler Living Trust. The Warrants will be exercisable beginning six months from the date of issuance and will terminate five years from such initial exercisability date.

/s/ Jack W. Schuler 05/09/2023
 ** 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.