

FORM 4

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

OMB APPROVAL
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STATEMENT OF CHANGES IN BENEFICIAL OWNERSHIP OF SECURITIES

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 * Kirson Eilon D. (Last) (First) (Middle) C/O NOVOCURE INC., VALLEY STREAM PARKWAY, SUITE 300 (Street) MALVERN, PA 19355 (City) (State) (Zip)	2. Issuer Name and Ticker or Trading Symbol Novocure Ltd [NVCR]	5. Relationship of Reporting Person(s) to Issuer (Check all applicable) <input type="checkbox"/> Director <input type="checkbox"/> 10% Owner <input checked="" type="checkbox"/> X Officer (give title below) <input type="checkbox"/> Other (specify below) Chief Science Officer
3. Date of Earliest Transaction (MM/DD/YYYY) <p align="center">2/27/2018</p>		6. Individual or Joint/Group Filing (Check Applicable Line) <input checked="" type="checkbox"/> Form filed by One Reporting Person <input type="checkbox"/> Form filed by More than One Reporting Person
4. If Amendment, Date Original Filed (MM/DD/YYYY)		

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

1. Title of Security (Instr. 3)	2. Trans. Date	2A. Deemed Execution Date, if any	3. Trans. 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			

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

1. Title of Derivate Security (Instr. 3)	2. Conversion or Exercise Price of Derivative Security	3. Trans. Date	3A. Deemed Execution Date, if any	4. Trans. 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		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 of Derivative Security: 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				
Options to Buy Ordinary Shares	\$21.15	2/27/2018		A		152068		(1)	2/27/2028	Ordinary Shares	152068	\$0.00	152068	D	
Restricted Stock Unit	(2)	2/27/2018		A		20833		(3)	(3)	Ordinary Shares	20833	\$0.00	20833	D	

Explanation of Responses:

- (1) Options to buy 152,068 ordinary shares will vest and become exercisable in equal installments on each of February 27, 2019, 2020, 2021 and 2022, subject to the reporting person's continued employment through such dates.
- (2) Each restricted stock unit represents the right to receive, at settlement, one (1) ordinary share.
- (3) One-third of these restricted stock units are scheduled to vest on each of February 27, 2019, 2020 and 2021, subject to the reporting person's continued employment through such dates.

Reporting Owners

Reporting Owner Name / Address	Relationships			
	Director	10% Owner	Officer	Other
Kirson Eilon D. C/O NOVOCURE INC., VALLEY STREAM PARKWAY, SUITE 300 MALVERN, PA 19355			Chief Science Officer	

Signatures

By: /s/ Todd Longworth, Attorney in fact for Eilon D. Kirson

3/1/2018

**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 control number.