

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

Schedule 13G/A
(Rule 13d-102)
Amendment No. 1

Under the Securities Exchange Act of 1934

TCR2 THERAPEUTICS INC
(Name of Issuer)

Common Shares
(Title of Class of Securities)

87808K106
(CUSIP Number)

December 31, 2022
(Date of Event which Requires Filing of this Statement)

Check the appropriate box to designate the rule pursuant to which this Schedule is filed:

Rule 13d-1(b) ☐
Rule 13d-1(c) ☒
Rule 13d-1(d) ☐

*The remainder of this cover page shall be filled out for a reporting person's initial filing on this form with respect to the subject class of securities, and for any subsequent amendment containing information which would alter the disclosures provided in a prior cover page.

The information required in the remainder of this cover page shall not be deemed to be "filed" for the purpose of Section 18 of the Securities Exchange Act of 1934 ("Act") or otherwise subject to the liabilities of that section of the Act but shall be subject to all other provisions of the Act (however, see the Notes).

(Continued on following pages)
(Page 1 of 12 Pages)

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|---|---|-------------------------------|--|
| 1 | NAME OF REPORTING PERSONS THE K2 PRINCIPAL FUND, L.P. | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION ONTARIO, CANADA | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER -0- | |
| | 6 | SHARED VOTING POWER | |
| | 7 | SOLE DISPOSITIVE POWER -0- | |
| | 8 | SHARED DISPOSITIVE POWER | |
| 9 | AGGREGATE AMOUNT BENEFICIALLY OWNED BY EACH REPORTING PERSON | | |
| 10 | CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.00% | | |
| 12 | TYPE OF REPORTING PERSON PN | | |

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|---|---|-------------------------------|--|
| 1 | NAME OF REPORTING PERSONS K2 GENPAR 2017 INC. | | |
| 2 | CHECK THE APPROPRIATE BOX IF A MEMBER OF A GROUP (a) <input type="checkbox"/> (b) <input type="checkbox"/> | | |
| 3 | SEC USE ONLY | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION ONTARIO, CANADA | | |
| NUMBER OF SHARES BENEFICIALLY OWNED BY EACH REPORTING PERSON WITH | 5 | SOLE VOTING POWER -0- | |
| | 6 | SHARED VOTING POWER | |
| | 7 | SOLE DISPOSITIVE POWER -0- | |
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| 10 | CHECK IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES <input type="checkbox"/> | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 0.00% | | |
| 12 | TYPE OF REPORTING PERSON CO | | |