Bialik Leon Form SC 13G/A January 18, 2012

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

SCHEDULE 13G

Under the Securities Exchange Act of 1934 (Amendment No. 12)*

AudioCodes Ltd. (Name of Issuer)

Ordinary Shares, NIS 0.01 par value (Title of Class of Securities)

M15342-10-4 (CUSIP Number)

December 31, 2011 (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)
- x Rule 13d-1(d)

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).

^{*} 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.

| CUSIP No. M15342 10-4 | | SCHEDULE 13G | Page 2 of 6 Pages | | |
|-----------------------|---|--------------------|--|----------------|--|
| 1 | NAMES OF REPORTING PERSONS I.R.S. IDENTIFICATION NO. OF ABOVE PERSONS (ENTITIES ONLY) Leon Bialik | | | | |
| 2 | CHECK THE AP | PROPRIATE BOX IF A | A MEMBER OF A GROUP (See Instructions) | (a) " (b) " | |
| 3 | SEC USE ONLY | | | | |
| 4 | CITIZENSHIP OR PLACE OF ORGANIZATION Israel | | | | |
| | NUMBER OF SHARES | 5 | SOLE VOTING POWER | 4,079,322 | |
| | BENEFICIALLY OWNED BY EACH | 6 | SHARED VOTING POWER | 0 | |
| | REPORTING PERSON WITH: | 7 | SOLE DISPOSITIVE POWER | 4,079,322 | |
| | | 8 | SHARED DISPOSITIVE POWER (|) | |
| 9 | AGGREGATE A | MOUNT BENEFICIAL | LLY OWNED BY EACH REPORTING PERSO | ON | |
| | 4,079,322 | | | | |
| 10 | CHECK BOX IF THE AGGREGATE AMOUNT IN ROW (9) EXCLUDES CERTAIN SHARES (See Instructions) | | | | |
| 11 | PERCENT OF CLASS REPRESENTED BY AMOUNT IN ROW (9) 8.3%* | | | | |
| 12 | TYPE OF REPOR | RTING PERSON (See | Instructions) | | |

IN

^{*} This percentage calculation is based on 49,159,897 outstanding shares as of December 31, 2011, which does not include 8,597,113 treasury shares outstanding as of December 31, 2011.

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Item 1.

- (a) Name of Issuer:
 AudioCodes Ltd. (the "Company")
- (b) Address of Issuer's Principal Executive Offices: 1 Hayarden Street Airport City, Lod 70151, Israel

Item 2.

- (a) Name of Person Filing: Leon Bialik
- (b) Address of Principal Business Office or, if None, Residence:4, Rekanaty Street, App. 60Tel Aviv 69494, Israel
- (c) Citizenship: Israel
- (d) Title of Class of Securities: Ordinary Shares, NIS 0.01 par value.
- (e) CUSIP Number: M15342-10-4

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| Item 3. | | If This Statement Is Filed Pursua filing is a: | ant to Rule 13d-1(b) or Rule 13d-2(b) or (c), check whether the person | |
|---------|-----|--|--|--|
| | (a) | | Broker or dealer registered under section 15 of the Act (15 U.S.C. 78o) | |
| | (b) | | Bank as defined in section 3(a)(6) of the Act (15 U.S.C. 78c) | |
| | (c) | | Insurance company as defined in section 3(a)(19) of the Act (15 U.S.C. 78c) | |
| | (d) | | Investment company registered under section 8 of the Investment Company Act of 1940 (15 U.S.C. 80a-8) | |
| | (e) | | An investment adviser in accordance with section 240.13d-1(b)(1)(ii)(E) | |
| | (f) | | An employee benefit plan or endowment fund in accordance with section 240.13d-1(b)(1)(ii)(F) | |
| | (g) | | A parent holding company or control person in accordance with section 240.13d-1(b)(1)(ii)(G) | |
| | (h) | | A savings association as defined in section 3(b) of the Federal Deposit Insurance Act (12 U.S.C. 1813) | |
| | (i) | | A church plan that is excluded from the definition of an investment company under section 3(c)(14) of the Investment Company Act of 1940 (15 U.S.C. 80a-3) | |
| | (j) | | Group, in accordance with section 240.13d-1(b)(1)(ii)(J) | |
| Item 4. | | Ownership. | | |
| | (a) | Amount beneficially owned: 4,079,322 | | |
| | (b) | Percent of class: 8.3% (See Footnote, Page 2) | | |
| | (c) | Number of shares as to which the person has: | | |
| | (0) | (i) Sole power to vote or to direct the vote 4,079,322 | | |
| | | (ii) | Shared power to vote or to direct the vote 0 | |
| | | (iii) | Sole power to dispose or to direct the disposition of 4,079,322 | |
| | | (iv) | Shared power to dispose or to direct the disposition of 0 | |

| Item 5. Ownership of Five Percent or Less of a Class. If this statement is being filed to report the fact that as of the date hereof the reporting person has ceased to be the beneficial owner of more than five percent of the class of securities, check the following: o Instruction: Dissolution of a group requires a response to this item. Not Applicable. Item 6. Ownership of More than Five Percent on Behalf of Another Person. Not Applicable. Item Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by th 7. Parent Holding Company or Control Person. Not Applicable. Item 8. Identification and Classification of Members of the Group. Not Applicable. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. Not Applicable. | CUSIP No. M15342 10-4 | SCHEDULE 13G | Page 5 of 6 Pages | | | | |
|---|---|--|-------------------------|--|--|--|--|
| beneficial owner of more than five percent of the class of securities, check the following: o Instruction: Dissolution of a group requires a response to this item. Not Applicable. Item 6. Ownership of More than Five Percent on Behalf of Another Person. Not Applicable. Item Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by the 7. Parent Holding Company or Control Person. Not Applicable. Item 8. Identification and Classification of Members of the Group. Not Applicable. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. | Item 5. | Ownership of Five Percent or Les | ss of a Class. | | | | |
| Not Applicable. Item 6. Ownership of More than Five Percent on Behalf of Another Person. Not Applicable. Item Identification and Classification of the Subsidiary Which Acquired the Security Being Reported on by th 7. Parent Holding Company or Control Person. Not Applicable. Item 8. Identification and Classification of Members of the Group. Not Applicable. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. | | | | | | | |
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| Item 8. Identification and Classification of Members of the Group. Not Applicable. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. | • | | | | | | |
| Not Applicable. Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. | Not Applicable. | | | | | | |
| Item 9. Notice of Dissolution of Group. Not Applicable. Item 10. Certification. | Item 8. | Identification and Classification of Mer | mbers of the Group. | | | | |
| Not Applicable. Item 10. Certification. | Not Applicable. | | | | | | |
| Item 10. Certification. | Item 9. | Notice of Dissolution of C | Group. | | | | |
| | Not Applicable. | | | | | | |
| Not Applicable. | Item 10. | Certification. | | | | | |
| | Not Applicable. | | | | | | |
| | | | | | | | |

SIGNATURE

After reasonable inquiry and to the best of my knowledge and belief, I certify that the information set forth in this statement is true, complete and correct.

January 18, 2012

/s/ Leon Bialik Leon Bialik

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