NEW YORK CITY TEACHERS' RETIREMENT SYSTEM BOARD MEETING б Held on Thursday, December 21, 2017, at 55 Water Street, New York, New York ATTENDEES: JOHN ADLER, Chairman, Trustee DAVID KAZANSKY, Trustee THOMAS BROWN, Trustee SUZANNE VICKERS, Trustee RAYMOND ORLANDO, Trustee DEBRA PENNY, Trustee PATRICIA REILLY, Teachers' Retirement System SUSAN STANG, Teachers' Retirement System RENEE PEARCE, Teachers' Retirement System THAD McTIGUE, Teachers' Retirement System REPORTED BY: YAFFA KAPLAN JOB NO. 0611040 ATTENDEES (Continued): KAVITA KANWAR, Teachers' Retirement System ANNETTE HANHARAN, Teachers' Retirement System ANTHONY MEZZACAPPA, Teachers' Retirement System MARTA ROSS, ESQ., Law Department SHERRY CHAN, Office of the Actuary NATARAJAN KRISHNAMOORTHY, Teachers' Retirement System LIZ SANCHEZ, Teachers' Retirement System JIMMY YAN, Comptroller's Office CYNTHIA COLLINS, Mayor's Office MELVYN AARONSON, Teachers' Retirement System Proceedings

MR. ADLER: All right, good afternoon. 2 3 Welcome to the Teachers' Retirement System 4 board meeting for December 21, 2017. 5 Patricia, will you please call the roll? б MS. REILLY: John Adler? 7 MR. ADLER: Here. 8 MS. REILLY: Thomas Brown? 9 MR. BROWN: Here. 10 MS. REILLY: David Kazansky? 11 MR. KAZANSKY: Present. 12 MS. REILLY: Raymond Orlando? 13 MR. ORLANDO: I am here. MS. REILLY: Debra Penny? 14 15 MS. PENNY: Here. 16 MS. REILLY: Suzannah Vickers? 17 MS. VICKERS: Here. MS. REILLY: We do have a quorum. 18 19 MR. ADLER: Okay. Take us away. 20 MS. REILLY: Next on the agenda is an 21 update on TRS operations. Kavita Kanwar is 22 going to do that for us. 23 MS. KANWAR: 1099 forms for tax year 24 2017 will be mailed in January. TRS has been 25 working with FISA to complete the generation 0004 Proceedings 1 of 1099 forms for nonperiodic distributions 2 3 such as withdrawals and refunds. FISA will also generate 1099 on behalf of TRS for 4 5 approximately 90,650 retirees and continuing б beneficiaries who receive monthly payments. 7 As part of this effort, TRS will also send an informational brochure to just about 2,000 new 8 retirees who are receiving a 1099 for the 9 10 first time. TRS is completing the processing of required minimum distributions or RMDs for 11 12 tax year 2017. RMDs are paid to certain 13 retirees who are maintaining their TDA 14 accounts but have reached age 70 and a half. Roughly 14,380 retirees will receive their 15 distribution in December of this year. Of 16 this number, approximately 10,400 are members 17 18 that did not make a specific month election 19 but are required to receive an RMD by the 20 year-end. 430 beneficiaries who participate 21 in our TDA e-program will also receive RMDs 22 this month. 23 On January 1, 2018, a new plan year goes 24 into effect for Tier VI members, which means 25 that pension contribution rate may change. 0005 1 Proceedings 2 Based on rules governing Tier VI, TRS has 3 reviewed updated salary and wage information

for all Tier VI members, and approximately 4 5 9,200 will have a new rate starting in 6 January. As of January 1, 2018, TRS will 7 introduce the balanced fund as an investment option for members. The balanced fund 8 9 replaces the Bond Fund. Back in the spring of 10 this year, TRS undertook a campaign to 11 communicate the change to members. The TRS 12 website and other communications will reflect 13 the new fund offering starting in January. 14 MS. REILLY: Thank you, Kavita. Next on 15 the agenda is the executive director's report 16 and the first item is the matter of the next 17 meeting and it has been suggested that the 18 next regular meeting of the Teachers' 19 Retirement Board be held on the third Thursday 20 of the month, January 18, 2018. 21 Next is authorization to the Comptroller 22 of the City of New York to invest certain 23 funds. 24 MR. KAZANSKY: Please waive the reading. 25 MR. ADLER: Okay. So we need a motion 0006 Proceedings 1 2 to approve the resolution to authorize the 3 Comptroller of the City of New York to invest 4 certain funds. Is there a motion? 5 MR. KAZANSKY: So moved. б MR. ADLER: Is there a second? 7 MS. PENNY: Second. 8 MR. ADLER: Motion made and seconded. 9 Any discussion? All in favor of the motion, please say aye. Aye. 10 11 MS. PENNY: Aye. 12 MS. VICKERS: Aye. 13 MR. BROWN: Aye. 14 MR. ORLANDO: Aye. 15 MR. KAZANSKY: Aye. 16 MR. ADLER: All opposed, please say nay. 17 Any abstentions? Okay. Motion carries. MS. REILLY: Next is the authorization 18 19 to the Comptroller of the City of New York to 20 invest certain tax-deferred annuity funds. 21 MR. KAZANSKY: Again, please waive the 22 reading. 23 MR. ADLER: Again, there is a motion to 24 approve the resolution to authorize the 25 Comptroller of the City of New York to invest 0007 1 Proceedings 2 certain tax-deferred annuity funds. 3 MS. PENNY: So moved. 4 MR. ADLER: Is there a second? 5 MR. BROWN: Second.

MR. ADLER: Thank you. Any discussion? б 7 All in favor of the motion, please say aye. 8 Aye. 9 MS. PENNY: Aye. 10 MS. VICKERS: Aye. MR. BROWN: Aye. 11 12 MR. ORLANDO: Aye. 13 MR. KAZANSKY: Aye. MR. ADLER: All opposed, please say nay. 14 Any abstentions? Motion carries. 15 16 MS. REILLY: Next is attendance at a 17 conference. "Resolved, that the Trustees of the Teachers' Retirement Board hereby approve 18 19 the attendance and participation of the 20 Executive Director and/or her designees and 21 any interested trustee at the National 22 Association of Public Pension Attorneys' 23 (NAPPA), 2018 winter seminar from February 24 21st to February 23, 2018. 25 Is there a motion to approve MR. ADLER: 8000 1 Proceedings 2 this resolution? MR. KAZANSKY: So moved. 3 MR. ADLER: Is there a second? 4 5 MS. PENNY: Second. Thank you. Any discussion? б MR. ADLER: 7 All in favor of the motion to approve the resolution regarding attendance at the NAPPA 8 9 2018 winter seminar, please say aye. Aye. 10 MS. PENNY: Aye. 11 MS. VICKERS: Aye. MR. BROWN: Aye. 12 13 MR. ORLANDO: Aye. 14 MR. KAZANSKY: Aye. 15 MR. ADLER: All opposed, please say nay. 16 Any abstentions. Motion carries. 17 MS. REILLY: That concludes the 18 executive director's report. 19 Next is the calendar and on the calendar 20 we have the matter of the minutes, of approval of the minutes of the -- again, we haven't 21 22 received the minutes for June 21, 2017. So 23 that should be laid over. But we do have the 24 approval of the TRS investment meeting minutes 25 of November 2, 2017 and the approval of the 0009 1 Proceedings 2 TRS regular board meeting minutes of November 3 16, 2017. 4 MR. ADLER: Okay. So we got these 5 minutes; is that correct? 6 MR. McTIGUE: Last week, yes. 7 MR. ADLER: Thank you. Is there a

8 motion to approve the minutes from the TRS 9 investment meeting November 2, 2017 and the 10 TRS regular board meeting minutes of November 11 16, 2017? 12 MR. BROWN: So moved. Is there a second? 13 MR. ADLER: 14 MS. VICKERS: Second. 15 MR. ADLER: Any discussion? All in 16 favor of the motion to approve the minutes, 17 please say aye. Aye. 18 MS. PENNY: Aye. 19 MS. VICKERS: Aye. MR. BROWN: Aye. 20 21 MR. ORLANDO: Aye. 22 MR. KAZANSKY: Aye. 23 MR. ADLER: Opposed, please say nay. 24 Any abstentions? Okay. Motion carries. 25 MS. REILLY: The next is the calendar, 0010 1 Proceedings and you all should have received an electronic 2 3 version of the calendar. 4 MR. KAZANSKY: Please waive the reading 5 of the calendar. MR. ADLER: All right. So is there a б 7 motion to prove the calendar? 8 MS. VICKERS: So moved. 9 MR. ADLER: Is there a second? MS. PENNY: Second. 10 11 MR. ADLER: Motion made and seconded. Any discussion of the calendar? All right. 12 13 All in favor of the motion to approve the 14 calendar, please say aye. Aye. 15 MS. PENNY: Aye. 16 MS. VICKERS: Aye. 17 MR. BROWN: Aye. 18 MR. ORLANDO: Aye. 19 MR. KAZANSKY: Aye. 20 MR. ADLER: All opposed, please say nay. 21 Any abstentions? Motion carries. 22 MS. REILLY: Next on the agenda is other 23 business for the Board. 24 MR. ADLER: Is there any other business? 25 MS. REILLY: And then finally questions 0011 1 Proceedings 2 and comments from the public. 3 MR. ADLER: Any questions or comments 4 from the public? 5 MR. AARONSON: There is a comment. б MR. ADLER: Mr. Public? 7 MR. AARONSON: The public would like 8 very much to thank the trustees and staff of 9 the Teachers' Retirement System for the hard

10 work they do in protecting the benefits for 11 the 80 or 100,000 members in service and 65 or 12 70,000 members who are retired and they 13 appreciate this and thank you very much. 14 MR. ADLER: Thank you. Any other 15 questions or comments from the public? Okay. 16 Hearing none, I believe that concludes our 17 public business. So a motion to go into executive session would be in order. 18 MS. PENNY: I move pursuant to Public 19 20 Officers Law Section 105 to go into executive 21 session for discussions regarding specific 22 investment matters. 23 MR. ADLER: All right. Is there a 24 second? 25 MR. KAZANSKY: Second. 0012 1 Proceedings 2 MR. ADLER: Thank you. Any discussion? All in favor of the motion to go into 3 4 executive session, please say aye. Aye. MS. PENNY: Aye. 5 б MS. VICKERS: Aye. 7 MR. BROWN: Aye. 8 MR. ORLANDO: Aye. 9 MR. KAZANSKY: Aye. 10 MR. ADLER: All opposed, please say nay. 11 Any abstentions? Motion carries. Let's go 12 into executive session. 13 (Whereupon, the meeting went into executive 14 session.) 15 MR. ADLER: Okay. We are back in public session. Susan, will you please report out of 16 17 executive session? 18 MS. STANG: Sure. In executive session, 19 one policy matter was discussed, two specific 20 security issues in both the pension fund and the variable funds were discussed and 21 22 consensus was reached, which will be announced 23 at the appropriate time, and an operational 24 update was provided. 25 0013 1 MR. ADLER: Thank you very much. Anything further? I think that concludes our 2 business for today. A motion to adjourn would 3 4 be in order. 5 MR. BROWN: So moved. б Is there a second? MR. ADLER: 7 MS. VICKERS: Second. 8 MR. ADLER: Okay. Any discussion? All 9 in favor of the motion to adjourn, please say 10 aye. Aye. 11 MS. PENNY: Aye.

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          MS. VICKERS: Aye.
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           MR. BROWN: Aye.
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           MR. ORLANDO: Aye.
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           MR. KAZANSKY: Aye.
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           MR. ADLER: All opposed, please say nay.
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     Any abstentions? Meeting is adjourned and
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    happy holidays.
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           (Time noted: 4:28 p.m.)
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                I, YAFFA KAPLAN, a Notary Public
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          within and for the State of New York, do
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          hereby certify that the foregoing record of
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          proceedings is a full and correct
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          transcript of the stenographic notes taken
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                IN WITNESS WHEREOF, I have hereunto
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          set my hand this 5th day of January,
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