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        NEW YORK CITY Teachers' Retirement System
                     INVESTMENT MEETING
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    Held on Thursday, October 4, 2018, at 55 Water
    Street, New York, New York
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    ATTENDEES:
11
      JOHN ADLER, Chairman, Trustee
      THOMAS BROWN, Trustee
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    DEBRA PENNY, Trustee
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14
     ANTONIO RODRIGUEZ, BERS
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     SUSANNAH VICKERS, Trustee, Comptroller's Office
     DAVID KAZANSKY, Trustee
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17
     PATRICIA REILLY, Teachers' Retirement System
18
     MELVYN AARONSON, Teachers' Retirement System
19
     JOHN DORSA, Comptroller's Office
20
21
    REPORTED BY:
22
    YAFFA KAPLAN
    JOB NO. 2467123
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   ATTENDEES (Continued):
 3
     SUSAN STANG, Teachers' Retirement System
      RON SWINGLE, Teachers' Retirement System
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      ROBIN PELLISH, Rocaton
 6
      THAD McTIGUE, Teachers' Retirement System
      VALERIE BUDZIK, Teachers' Retirement System
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 8
      LIZ SANCHEZ, Teachers' Retirement System
9
      SAM RUMLEY, Office of the Actuary
10
     DAVID LEVINE, Groom Law Group
      CYNTHIA COLLINS, Mayor's Office
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      PAUL RAUCCI, Teachers' Retirement System
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           MR. ADLER: Good morning, everyone.
     Welcome to the Teachers' Retirement System of
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     the City of New York investment meeting for
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     October 4, 2018.
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           Pat, will you please call the roll?
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           MS. REILLY: John Adler?
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           MR. ADLER: I am here.
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           MS. REILLY: Thomas Brown?
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           MR. BROWN: Here.
           MS. REILLY: David Kazansky?
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           MR. KAZANSKY: Present.
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           MS. REILLY: Lindsey Oates? Debra
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     Penny?
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           MS. PENNY: Here.
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           MS. REILLY: Susannah Vickers?
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           MS. VICKERS:
                        Here.
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           MS. REILLY: We do have a quorum.
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           MR. ADLER: Great. Thank you. Okay.
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     With that, we will proceed with our public
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     agenda and turn it over to Robin to walk us
22
     through the performance reviews.
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           MS. PELLISH: Thank you. The first item
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     on the public agenda is the August performance
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     of the Passport Funds, and I believe that
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     everyone should have a copy of the August
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     report because this is the same report that
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     was e-mailed in advance.
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           So August continued to be a strong month
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     for US equities. You see that the Russell
 7
     3000 Index was up 3 and a half percent for the
 8
     month. So year-to-date the Russell Index is
 9
     up 10.4 percent. The Diversified Equity Fund,
10
     which is diversified into international as
11
     well as defensive strategies, underperformed
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     the Russell and very slightly underperformed
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     the hybrid benchmark due primarily to the
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     allocations to international and defensive
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     strategies which underperformed the very
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     strongly performing US equity market.
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           The Balanced Fund rose about 60 basis
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     points for the month, so year to date that is
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     up about 1 percent. The International Equity
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     Fund, as we mentioned, was a negative period
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     for international equities, and so in contrast
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     to the year-to-date performance of over 10
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    percent for the US equity market, the
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     international composite benchmark, which is a
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     combination of developed markets and emerging
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2 markets year-to-date period is actually 3 negative, so that's both local market 4 performance as well as the impact of the very 5 strong dollar hurting, negatively impacting 6 US-dollar-based investors and nonUS equities. 7 The Inflation Protection Fund was up 33 8 basis points for the month and is a little 9 over 1 percent for the year-to-date period, 10 and the Socially Responsive Fund lagged its S 11 & P 500 Index benchmark. Was up about 2.7 12 percent for the month, and year-to-date is up 13 close to 9.9 percent, very close to the S & P 14 500 return. 15 So there is a lot more detail in the 16 subsequent pages about individual manager 17 performance. I would say that the active 18 managers are lagging in general. Particularly 19 in US equity composite, so small lags for the 20 month and quarter, but the year to date we are behind about 200 basis points. Still very 21 22 strong return for year to date. In absolute 23 numbers, 8.3 percent for the first eight months of the year. Pretty big number. But 24 25 nonetheless, the portfolio value strategies 0006 1 Proceedings 2 have underperformed the broad equity market. 3 It's been very -- a very -- it's an equity 4 market dominated by growth stocks. So the 5 largest growth stocks -- you heard about the б FAN stocks, so I think we have a 7 diversification across value in both companies, but we don't have momentum growth 8 strongly represented in this portfolio and 9 10 that's what really worked this year. 11 So that is at least a partial 12 explanation of the lag. So I am happy to talk about anything specific with regard to the 13 14 August. 15 MR. ADLER: Just looking at one manager, Wasatch, I mean, those numbers are like off 16 17 the charts. 18 MS. PELLISH: They are off the charts. 19 MR. ADLER: I mean, the one-month number 20 of 11.4 and then a year-to-date of 30 percent. 21 I mean, oh, my God. So --22 MR. KAZANSKY: I hope they are watching. 23 MS. PELLISH: I will get back to the 24 Board on that. I don't know what specific 25 holdings they have. The interesting thing is 0007 1 Proceedings 2 that if you look at those very notable

figures, but then you look at the longer term

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performance, longer term performance over three years has been very good. So they are outperforming by 200 basis points, and if you go out to five years, they are lagging by 200 basis points. We will get the specific securities, but I think this is just the case of they had underperformed for a period of time and now the names are finally coming back. 

MR. ADLER: Okay. Any other questions for Robin on the August report? Okay. Move on to September.

MS. PELLISH: So we have a preliminary report for September and a more modest month in September but still positive. Seventeen basis points for the Russell 3000. The developed markets did relatively well during the month of September, so the composite benchmark, which again is a mixture of developed and emerging markets was positive by 70 basis points. So for the calendar year to date for the international composite

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benchmarks, slightly less negative. The defensive strategies of the benchmark were flat, and for Variable A on the diversified equity fund, we think that the benchmark will be up a little over 25 basis points. So for the calendar year for the Diversified Equity Fund year to date through September, we see a return of 70.8 percent. For the one-year number, 14 percent, and for the three-year number, an average annual return for that benchmark of over 15 percent. So very robust numbers.

For the Balanced Fund benchmark because bonds, this is primarily -- it's 70 percent bonds so bonds were affected so slight loss from 7 basis points for the Balanced Fund benchmark. We mentioned that -- I mentioned that developed markets had a positive return -- developed nonUS equity markets had a positive return for the month. When you combine that with emerging markets, which actually have a US-dollar-base investor perspective lost money.

The international composite benchmark

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was up about 70 basis points. The Inflation
Protection Fund we know was up 11 basis points
for the month, and the Socially Responsive
Equity Fund actually had a small loss of 80

6 basis points for the month. So much more 7 muted returns for September. 8 MR. ADLER: Questions for Robin for the 9 month of September? I just have a question, 10 which is that I read a little snippet on my way in this morning that the ten-year T-bill 11 12 yesterday is up to its highest rate in I don't 13 know how long. 14 MS. PELLISH: Many years, yes. Yes. 15 MR. ADLER: So can you just give a --16 MS. PELLISH: Yes. I think that was a 17 response to expectations of continued growth, 18 and more importantly, continued Fed 19 tightening, so implications from the Fed have 20 been that they think that it will be 21 reasonable to continue tightening. 22 markets will continue tightening, and you 23 know, I think the unemployment rate is the 24 lowest it's been since many years as well, so 25 these expectations of rising inflation so I 0010 1 Proceedings 2 think exceptions of the Fed tightening and 3 inflation led to the ten-year jumping in 4 yield. 5 So just from obviously a MR. ADLER: б very short term but just from the very narrow perspective of the fund's expected returns, 7 8 this is good news, right? I mean, in other 9 words --10 MS. PELLISH: For the Passport Funds or 11 pension fund or in total? 12 MR. ADLER: I guess I was thinking about 13 either one but distinguish it for me. I mean, 14 it just seems like we have been in this low 15 interest rate environment for a very long time 16 and now it's apparently starting to revert 17 perhaps and I would think that would be a good 18 thing for -- I guess I am really thinking 19 about from the Passport Fund perspective more 20 than anything. 21 MS. PELLISH: Well, certainly you want 22 yields to rise if you are a bond investor. 23 Short-term pain, long-term gain. You want to 24 be realizing higher yields and the only way to 25 do is through live through a period of rising 0011 1 Proceedings 2 interest rates. For the equity market, the 3 news may not be as benign, and one of the reasons I emphasize this 15 percent average 5 annual return for the past three years and 12 6 percent for the past five year for the

Diversified Equity Fund type of benchmark.

you go up really -- let's look at the Russell 3000 for the past five years. We have had average annual returns over 13 percent. MR. ADLER: Seven years. It's almost 17 percent. It's crazy.

MS. PELLISH: Yes. So to put it in the simplest possible terms, this feels like we are borrowing from future returns. And this is certainly above the expectation, well above long-term averages, and so it reflects lots of things including lots of liquidity sloshing around in the market. Very little competition from interest-bearing instruments, so to the extent -- there are so many factors and so many variables feed into this, but the extent the yields rise, that's not necessarily a good harbinger for the equity market, and the unexpectedly and amazing returns we have

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gotten over the last three, five, seven years in US equity market also I think raise some concerns about what we might expect from that market over the next term. On the other hand, I have been saying this for years. At some point like a stopped clock I will be right, but I do think rising yields is good eventually for long-term bond holders, not so good for intermediate investors.

MR. KAZANSKY: So my understanding -and I very well may be wrong -- was that in the weeks or so before we have seen this kind of yield go up, there is a lot of talk about whether or not it was going to flatten out or even invert and that that was going to be a symbol or a sign that a recession might be coming, but now you are saying that yields going up also may be a harbinger of problems in the equity market?

MS. PELLISH: Well, not necessarily because of recession and necessarily economic growth, but it makes borrowing for corporate entities more expensive, and it also provides incentives for investors to move out of equity

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1 2 markets into fixed income instruments. 3 generalizing yield -- there are so many factors that drive equity market returns, but 4 5 rising yields are not necessarily -- not typically a positive force in equity 7 valuations, right, because stocks should be 8 discounted cash flows into those companies. If you are discounting them at higher rates,

10 the current value, the present value of that 11 entity is lower, of that corporation is lower. 12 So all else equal, rising rates aren't good 13 for the market. 14 MR. ADLER: Other questions for Robin? 15 So let's move to the next item which is a 16 discussion of the investment beliefs. 17 MS. PELLISH: All right. So thank you. So we have circulated and there have been a 18 19 couple of additions to this, so we have handed 20 out the most recent version that you received 21 by e-mail, both the clean copy and the redlined copy. And the statement of 22 23 investment beliefs really reflects --24 actually, you know what? I want to make sure 25 that you got the most recent one. Okay, good. 0014 1 Proceedings 2 Thank you. 3 So there aren't significant changes. 4 There are some changes in the wording, most 5 particularly around the last and next-to-last 6 sub-bullet points, but I don't think the 7 substance of anything has changed from the 8 last time the Board has reviewed this 9 statement. 10 MR. ADLER: So any discussion of this 11 12 MS. VICKERS: No. I mean, I will say 13 that I think the edits were helpful and 14 strengthening some of the thoughts expressed 15 in the statement, and you know, from my 16 perspective it looks good. 17 MS. PENNY: And it's one page. 18 MS. PELLISH: If you manage the font 19 carefully. 20 MR. ADLER: So if there is no further 21 discussion, I think what we do is we say we 22 have consensus over this statement, and we 23 formally adopt it at the next board meeting, 24 right? So do we have consensus over the draft 25 statement of investment beliefs? 0015 1 Proceedings MR. KAZANSKY: Yes, we do. 2 3 MR. ADLER: Okay. 4 MS. PELLISH: And just for the benefit 5 of the board members who aren't aware of this, б this is going to be inserted into the IPS as 7 the very first section, and it will also be used as we work through the process of 9 thinking about the emerging market --10 replacing the country screening process for 11 the emerging markets investments for both the

12 pension fund and the Passport Fund because 13 this document will be used as the basis for 14 more detailed discussion about how we evaluate 15 portfolio company holdings in those emerging 16 market portfolios. 17 MR. ADLER: Okay. Great. 18 Next we have the discussion of the IPS 19 review, next steps. 2.0 MS. PELLISH: So this was put on the 21 agenda simply to reinvigorate the process. 22 There was a lot of time spent earlier this 23 year, last year on trying to spring on you 24 IPS, update it, and make it a more 25 user-friendly document and it is not yet 0016 1 Proceedings 2 complete but there continues to be work on it. 3 And Susannah, I don't know if you wanted to make some comments. 5 MS. VICKERS: Yes. Just to -- and it 6 took me a little bit of time to kind of get 7 refocused on where we are, so I just wanted to 8 share that with everybody. What we have is a full draft of the entire IPS at this point 9 with all sections sort of the -- what we call 10 11 the Robin sections and the BAM sections. All of those have been combined into one document 12 13 that has made a couple of turns in the spring 14 and over the summer. Right now, BAM, our 15 interim CIO has been handed off comments from 16 our previous CIO, and those comments have been 17 checked with the asset classes. So I expect 18 the final comments will be done in the coming 19 weeks, and we underscored for them the 20 importance of doing that quickly. And in the

21 meantime, I am going to show Robin what we

22 have so far from an investment perspective and 23

then we are hoping to do a conference call to

24 go over the draft with our little subcommittee in the coming weeks and then be able to

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present to the full board before the end of the year.

MS. REILLY: You are going to distribute it to the subcommittee before the conference call?

MS. VICKERS: Yes.

8 MS. PELLISH: I think the conference call will be in -- I will schedule something 9 for November, so we can be more sure we have 10 11 -- early November so we can be sure we have 12 the version from the Mayor's office and BAM in 13 advance.

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          MS. VICKERS: Then we can give BAM staff
15
     an end of October deadline to get all the
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     comments back.
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           MS. STANG: You might need a week to
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    review it because it's been a while and it's
19
    not short and it's dense.
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          MS. VICKERS: End of October for the
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    November call, but I think it's in very good
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     shape.
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           MR. ADLER: Okay.
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           MR. KAZANSKY: Sounds good.
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          MS. BUDZIK: I would actually say we
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    need more than a week to review it.
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          MR. ADLER: I was thinking that too.
          MS. PELLISH: So mid-November, we will
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     get the version back by end of October, and I
    will circulate some dates and see if that
    works for the group.
          MR. ADLER: Sounds good. Okay.
8
9
     think that concludes our public agenda for
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     today. We have some executive agenda items as
     well, so a motion will be in order in order to
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     exit public session and enter executive
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     session.
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           MS. PENNY: I move pursuant to Public
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    Officers Law Section 105 to go into executive
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     session for discussion of specific investment
17
    meters.
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          MR. ADLER: Thank you, Debra. Is there
19
     a second?
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          MS. VICKERS: Second.
           MR. ADLER: Thank you, Susannah.
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22
     discussion? All in fair of the motion, please
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     say aye. Aye.
24
          MS. VICKERS: Aye.
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          MS. PENNY: Aye.
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          MR. BROWN: Aye.
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          MR. KAZANSKY: Aye.
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          MR. ADLER: Any opposed, please say nay.
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     Any abstentions? Motion carries. We will go
 6
     into executive session.
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     (Whereupon, the meeting went into Executive Session.)
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          MR. ADLER: Folks, I think that
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     concludes our executive agenda. So a motion
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     to reenter public session will be in order.
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          MS. VICKERS: So moved.
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          MR. ADLER: Thank you, Ms. Vickers. Is
    there a second?
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           MR. KAZANSKY: Second.
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           MR. ADLER: Thank you, Mr. Kazansky.
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16
     Any discussion? All in favor of the motion to
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     go back into public session, please say aye.
18
     Aye.
19
           MS. VICKERS: Aye.
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           MS. PENNY: Aye.
22
           MR. BROWN: Aye.
23
           MR. KAZANSKY: Aye.
24
           MR. ADLER: All opposed, please say nay.
25
     Any abstentions? Okay. Motion carries.
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           We are back in public session. Susan,
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    will you please report out of executive
     session.
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           MS. STANG: Certainly. In executive
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     session we received one manager update, and we
 7
     also received a presentation and had a
 8
     spirited discussion on defined contribution
 9
    plan options.
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           MR. ADLER: So I believe that concludes
11
     our business for today. Is there a motion to
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     adjourn?
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           MR. BROWN: So moved.
           MR. ADLER: Thank you, Mr. Brown.
14
                                              Is
15
     there a second?
16
           MS. PENNY: Second.
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           MR. ADLER: Thank you, Ms. Penny. Any
     discussion? All in favor of the motion to
18
     adjourn, please say aye. Aye.
19
20
           MS. VICKERS: Aye.
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           MS. PENNY: Aye.
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23
           MR. BROWN: Aye.
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           MR. KAZANSKY: Aye.
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           MR. ADLER: All opposed, please say nay.
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     The motion carries. The meeting is
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     adjourned.
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           (Time noted: 12:13 p.m.)
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2	CERTIFICATE
3	STATE OF NEW YORK )
4	: ss.
5	COUNTY OF QUEENS )
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7	I, YAFFA KAPLAN, a Notary Public
8	within and for the State of New York, do
9	hereby certify that the foregoing record of
10	proceedings is a full and correct
11	transcript of the stenographic notes taken
12	by me therein.
13	IN WITNESS WHEREOF, I have hereunto
14	set my hand this 16th day of October,
15	2018.
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18	YAFFA KAPLAN
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