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1  
2 NEW YORK CITY TEACHERS' RETIREMENT SYSTEM  
3 INVESTMENT MEETING  
4 Held on Thursday, April 2, 2015  
5 at  
6 55 Water Street  
7 New York, New York  
8 9:53 a.m.  
9

10 ATTENDEES:

11 MELVYN AARONSON, Chairman, Trustee  
12 SANDRA MARCH, Trustee  
13 THOMAS BROWN, Trustee  
14 SCOTT EVANS, Trustee  
15 JOHN ADLER, Trustee  
16 SUSANNAH VICKERS, Trustee  
17 CHARLOTTE BEYER, Trustee  
18 PATRICIA REILLY, Teachers' Retirement System  
19 THAD McTIGUE, Comptroller's Office  
20 MARTIN GANTZ, Comptroller's Office  
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1 ATTENDEES (Continued):  
2 SUSAN STANG, Teachers' Retirement System  
3 JOHN DORSA  
4 MICHAEL FULVIO, Rocaton  
5 ROBIN PELLISH, Rocaton  
6 ALLISON TUMILTY  
7 VALERIE BUDZIK, Teachers' Retirement System  
8 PAUL RAUCCI  
9 RENEE PEARCE  
10 Alex Done, Comptroller's Office  
11 JOHN MERSEBURG, Comptroller's Office  
12 JIMMY YAN, Comptroller's Office  
13 LIZ SANCHEZ, Teachers' Retirement System  
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1 MS. REILLY: Good morning. Welcome to  
2 the April 2, 2015, Teachers' Retirement System  
3 investment meeting. I will start by calling  
4 the roll.  
5 Melvyn Aaronson?  
6 MR. AARONSON: Here.  
7 MS. REILLY: Charlotte Beyer?  
8 MS. BEYER: Here.  
9 MS REILLY: Thomas Brown?  
10 MR. BROWN: Here.  
11 MS. REILLY: Sandra March?  
12 MS. MARCH: Present.  
13 MS. REILLY: Susannah Vickers?  
14 MS VICKERS: Present.  
15 MS. REILLY: John Adler?  
16 MR. ADLER: Here.  
17 MS. REILLY: We do have a quorum and I  
18 would turn it over to the chair.  
19 MR. AARONSON: Thank you very much. May  
20 I request that everyone speak loud enough so  
21 both the stenographer can hear us and the TV  
22 can hear us. And remember to watch your  
23 language; you are on television.  
24 The order of business today is going to  
25 be in the public session the Passport Funds  
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1 first and then the Pension Fund, and then in  
2 the executive session it will be Passport  
3 Funds first and then Pension Fund second.  
4 So that leads up to you guys.  
5 MR. FULVIO: So we will start with the  
6 performance report for the month of February.  
7 It's this document. All the numbers on the  
8 cover. So we will start with the Diversified  
9 Equity Fund for the month of February. I  
10 should say as of month end, assets were about  
11 11.6 billion dollars, so up from the prior  
12 month given the strong month in the equity  
13 markets during February in both the US and  
14 abroad. And in addition to strong markets  
15 that were up in the area of 6 percent for both  
16 U.S. and non-U.S. markets, it was a strong  
17 month for active management as well with the  
18 active composite up about 7.2 percent,  
19 contributing to that 6.6 percent return for  
20 the fund as a whole.  
21 So the fund for the month was up on a  
22 relative basis by over 100 basis points  
23 relative to the hybrid benchmark and up  
24 relative basis to the Russell 3000 by about 80  
25 basis points.  
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1           On a year-to-date basis, the fund is  
2 ahead as well against both of those proxies,  
3 and a lot of that performance has been helped  
4 by the active managers in the plan. I will  
5 point out the Defensive Strategies Composite,  
6 which you can see for the first couple of  
7 months of this year are up about 3.4 percent  
8 as a whole relative to their benchmark of  
9 about 2.8 percent, which happens to be pretty  
10 close in line with the Russell 3000 at 2.8  
11 percent. So some strong performance there.  
12 You might recall that's a composite of  
13 strategies that use a variety of asset  
14 classes, not just U.S. equity, but also  
15 convertible bonds, non-U.S. equity, and also  
16 some other lower volatility equity strategies  
17 and global bonds as well.  
18           And you can see just below that, the  
19 actively managed U.S. equity composite on a  
20 relative basis for the year to date also  
21 having added some value, over 1 percent there.  
22 And just below that, the international equity  
23 composite up about 6 percent as well, although  
24 lagging a little bit on a relative basis. So  
25 in all it was a strong month for the managers

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1 across the Diversified Equity Fund. So we are  
2 very pleased to see that.  
3           Just below that, the Bond Fund with  
4 assets of about 340 million dollars at the end  
5 of February. The fund for the month was down  
6 about 40 basis points roughly in line with its  
7 benchmark. For the year-to-date period, the  
8 fund was up about 60 basis points, also in  
9 line with its benchmark.  
10          Just below that, the International  
11 Equity Fund with assets of about 108 million  
12 dollars at the end of the month. That fund on  
13 a relative basis has lagged somewhat over both  
14 the shorter term and longer term time periods.  
15 However, year to date, the fund is up about  
16 5.9 percent, and over the longer term, the  
17 fund more closely -- the 12-month period that  
18 is -- more closely tracking the benchmark, up  
19 about just over 10 basis points relative to  
20 the market return of about 40 basis points.  
21          The Inflation Protection Fund with about  
22 44 million dollars at the end of the month  
23 also had a modestly positive month, up about  
24 20 basis points, and on a relative basis, very  
25 slightly ahead of its benchmark. Over the

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1 last 12 months, that strategy is up about 2  
2 percent, relative to its benchmark, modestly  
3 negative. Over the longer term, that fund is  
4 up about over 6 percent relative to its  
5 benchmark proxy, which is just shy of 3  
6 percent.

7 The Socially Responsive Equity Fund --

8 MR. AARONSON: Before you get there, can  
9 I just ask a question?

10 MR. FULVIO: Sure.

11 MR. AARONSON: Can we see the inflation  
12 rate as well in the benchmark since it's the  
13 Inflation Protection?

14 MR. FULVIO: Absolutely. We will  
15 definitely add that.

16 Just below that, the Socially Responsive  
17 Equity Fund at the end of the month was  
18 approximately 100 million dollars in assets.  
19 The fund was up just shy 5 percent for the  
20 month trailing its benchmark about 1 percent.  
21 Over the longer term, the fund more closely  
22 tracks its benchmark. However, it has lagged  
23 over the trailing three- and five-year time  
24 periods. But in all, the absolute returns of  
25 that strategy, given the strong returns in the

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1 U.S. equity markets, have been quite positive.

2 We did add a couple of pages to this  
3 report based on the feedback we received at  
4 last month's meeting, so we did want to point  
5 out page 12, which provides on the Y-axis the  
6 five-year trailing performance for each of the  
7 strategies and their benchmarks and then on  
8 the X-axis the strategies' volatility.

9 So you can see comparing the colors here  
10 each of the funds relative to their benchmark  
11 on a risk and return basis, so what we like to  
12 see or prefer to see is that the performance  
13 of the funds over longtime periods is to the  
14 up and left of their respective benchmarks.

15 The Bond Fund that you see here, this  
16 performance is not quite for the five-year  
17 time period because that fund's inception only  
18 goes back to 2012, but for that time period,  
19 as you can see, as we expect the fund tracks  
20 very closely to its benchmark both risk and  
21 return basis.

22 Just to the right of that you can see  
23 the Inflation Protection Fund benchmark, the  
24 triangle there. Now, that fund -- that  
25 benchmark compares to the fund, the square up

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1 to the right. You can see that fund has added  
2 quite a bit of value relative to that  
3 benchmark over the five-year time period.  
4 What I would do is remind you that that  
5 benchmark is reflective of the strategy that  
6 we were using prior to the current strategy  
7 within the Inflation Protection Fund, and the  
8 benchmark for that strategy was at  
9 1-to-10-year TIPS benchmark, which tends to  
10 have very low volatility. Has had quite  
11 notable volatility over the last five years so  
12 we do see higher performance but also some  
13 higher volatility for the fund.

14 I am actually, rather than moving in the  
15 upward direction, going all the way to the  
16 right of the page. You can see the  
17 International Equity Fund, that tan square,  
18 and to the right of that, the MSCI EAFE Index,  
19 and as I mentioned before, the International  
20 Equity Fund has lagged somewhat over the  
21 trailing five-year period, but you can see the  
22 volatility of that fund is below that of the  
23 benchmark.

24 And then towards the top of the page,  
25 you can see the strategies that are

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1 predominantly U.S. equities, and U.S. equity  
2 has had pretty strong returns as we have  
3 discussed over the last five years.

4 So all of these -- all of these points  
5 are up in excess of 14 percent over the last  
6 five years, and their volatilities are all  
7 clustered around the volatility of the broad  
8 U.S. equity market, the Russell 3000 Index.  
9 They all tend to be a little less volatile,  
10 but you can see the Diversified Equity Fund is  
11 that blue square very close to the hybrid  
12 benchmark, which we would expect to see, and  
13 just above that, the red square, the Socially  
14 Responsive Equity Fund as I mentioned modestly  
15 lagging the returns of the S & P 500 Index  
16 over the last five years, but the volatility  
17 profile of that strategy is right where we  
18 would expect. Just right about where the S &  
19 P 500 is so we thought that was definitely a  
20 helpful addition to the report.

21 We are happy to, going forward, add  
22 improvements. As you mentioned, Mel, the CPI,  
23 we would be sure to add to that chart as well.

24 MS. PELLISH: So I think one of the  
25 things that's worth noting when we are

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1 providing an array of options for investors,  
2 for participants in the Passport Funds, what  
3 we want to do is make sure we have an array of  
4 risk-reward alternatives. So if you drew a  
5 line from the Bond Fund up to the U.S. equity  
6 fund, you could see that there are  
7 low-risk/low-return choices and much  
8 higher-risk/higher-return choices, and the  
9 Inflation Protection Fund falls somewhere in  
10 the middle.

11 If we pulled out, for example, the  
12 Defensive Strategies Fund, that would also be  
13 somewhere in the middle. So over time we may  
14 want to consider populating the middle of this  
15 range.

16 MR. FULVIO: So that concluded my  
17 comments on the performance of the funds for  
18 February for the performance for the trailing  
19 time periods. Any questions?

20 MR. AARONSON: Anybody have any  
21 questions about it?

22 MS. BEYER: Is page 5 the same as --  
23 that's showing the same data?

24 MR. FULVIO: The same type of data. The  
25 difference here is the data points are the

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1 composites that comprise Variable A.

2 MS. BEYER: Okay. Great. Thank you.

3 MR. AARONSON: Okay? Thank you for  
4 that. Now --

5 MR. FULVIO: So then we will just jump  
6 into the returns for March. That's this  
7 report.

8 MR. AARONSON: Can we exchange the  
9 February report for the March report?

10 MR. FULVIO: We would like to.

11 MS. MARCH: We could do it.

12 MS. PELLISH: You have the power as the  
13 chairman.

14 MR. FULVIO: So the U.S. equity markets,  
15 as you can see here, were down about 1 percent  
16 for the month of March. As a whole though  
17 through -- I'm sorry through March, U.S.  
18 markets are still up about 2 percent.

19 MS. PELLISH: For the calendar year.

20 MR. FULVIO: Calendar-year-to-date time  
21 period. For the fiscal year, U.S. equity  
22 markets still up over 7 percent, and you can  
23 see over quite a few long-term trailing time  
24 periods here, going out very positive absolute  
25 returns for U.S. stock market, the U.S. stock

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1 market as a whole.

2 Just below that, the MSCI EAFE Index,  
3 again, a proxy for developed non-U.S. markets,  
4 down about 1.4 percent in U.S. dollar terms.  
5 Calendar-year-to-date, ahead of the U.S.  
6 equity markets, which is quite a reversal from  
7 what we have seen over the last 12 months, and  
8 if you look at the last 12 months, that  
9 one-year time period, you can see the U.S. has  
10 added about 12 percent positive whereas the  
11 non-U.S. equity markets were down about half a  
12 percent.

13 MS. PELLISH: Most of which was  
14 currency, so if you look at these markets on a  
15 local currency basis, they are modestly  
16 positive, but because of the strong dollar,  
17 the returns to U.S.-based investors like our  
18 participants is negative.

19 MR. FULVIO: Just below that, the  
20 Defensive Strategies benchmark you can see  
21 protecting somewhat on the downside relative  
22 to the U.S. and non-U.S. equity markets, down  
23 about 75 basis points. Year to date, up about  
24 2 percent. And over the longer term time  
25 periods, you can see going across the page

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1 still some pretty strong absolute returns in  
2 excess of 13 percent over the last five years,  
3 for example.

4 And below that, the Diversified Equity  
5 Funds hybrid benchmark, which again is a  
6 rollup of those benchmarks we just mentioned.  
7 Also down about 1 percent, which is where we  
8 would expect to see the fund in that  
9 neighborhood.

10 Below that, you can see the other  
11 benchmarks, the Bond Fund's benchmark was up  
12 about 40 basis points during March. We  
13 already talked about the International Equity  
14 Fund's benchmark, the EAFE Index down about  
15 1.5 percent.

16 The underlying strategy for the  
17 Inflation Protection Fund also down about 1  
18 percent and the Socially Responsive Equity  
19 Fund's underlying strategy down about a half a  
20 percent but also ahead of its S & P 500  
21 benchmark by about 1 percent. And that  
22 concludes, unless there is any questions, the  
23 performance for March.

24 MR. AARONSON: Anybody? Questions?  
25 Comments? Thank you very much and now we can

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1 move to the Pension Funds.

2 Scott.

3 MR. EVANS: Thank you, Mr. Chairman. If  
4 we turn to the flip book for February, that's  
5 page 37, and you look at the bottom third  
6 column over, you can see at the end of  
7 February, the portfolio was -- involved 60  
8 billion dollars and increased in value 2.83  
9 percent on the semiannual return during the  
10 month of February, 5 basis points ahead of the  
11 benchmark.

12 If we turn back to page 30, you can see  
13 that we are on plan with our rebalancing plan,  
14 nontactical asset plan, if you will, to stay  
15 pretty close to the benchmark in equities on  
16 the left and to stay close to the benchmark on  
17 the right except for an underweight in  
18 long-term bonds and overweight in short-term  
19 bonds getting down to a duration that's  
20 similar to the market as a whole as measured  
21 by the Barclays Aggregate. We are on plan for  
22 this. As cash comes in and out of the fund,  
23 we have to adjust it, and there you see a  
24 snapshot at the end of February.

25 I will now turn to Martin. We don't

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1 want to duplicate what's been said about  
2 February and March, but we will take you  
3 through some additional highlights that we see  
4 during the month of February.

5 Martin?

6 MR. GANTZ: Thank you, Scott.

7 So I am not going to duplicate what Mike  
8 just went through for the returns for  
9 February, March, but I do want to take you  
10 through a couple of pages. You have the U.S.  
11 economy is growing, but there are some hiccups  
12 along the way. Retail sales isn't as strong  
13 as it could be. Unemployment seems to be  
14 okay. Inflation is definitely under control.  
15 But it's definitely a mixed picture because  
16 growth overall isn't as strong as it could be  
17 still.

18 The February numbers are on page 27 and  
19 28. The one-month numbers on the left, I am  
20 not going to repeat what Mike said. It was a  
21 great month in February. I liked it. It was  
22 a great month in February, but taking you to  
23 the bottom line, on page 29, the return for  
24 the month on the left was 2.83 percent,  
25 bringing the fiscal year to date, which is in

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1 the middle, to 3.69 percent.

2 So we had mentioned to you that we  
3 expected a pretty -- if you remember at this  
4 time last month that we expected a good month  
5 for February and there you go. As far as  
6 March goes, he gave you the numbers. So  
7 slightly negative, not very big negative for  
8 U.S. equity, around 1 percent. Slight  
9 positive for fixed income so probably going to  
10 be a slight negative for the month of March.  
11 As far as the market value, I would like you  
12 to turn to page 35 because I hinted this to  
13 you last month unofficially and I can now tell  
14 you officially: You are now over 60 billion  
15 dollars as of February. So congratulations.  
16 And that's the first time that's occurred as  
17 of the month end.

18 MR. AARONSON: That includes about 12  
19 billion dollars of tax-deferred annuity money  
20 fixed income?

21 MR. GANTZ: Approximately. Correct. So  
22 that's a new high on page 35.

23 On page 36 we have the same chart except  
24 it's not by month for the last year. It's the  
25 last ten years, and you will notice on the

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1 bottom, the ten-year return is exactly 7  
2 percent so we are --

3 MR. AARONSON: Mr. North will thank you.

4 MR. GANTZ: Mr. North will thank me  
5 wherever he is right now.

6 MS. VICKERS: He is the only one  
7 watching.

8 MR. ADLER: The whole world is watching.

9 MR. GANTZ: So where are we as of today?  
10 An estimate where we are as of March, it was a  
11 slight negative but probably right on the cusp  
12 of 60 billion. I think we still hold it but  
13 it was probably -- a slightly down month but  
14 it was very -- again, not a big down month.  
15 It was a slight down month.

16 Starting on page 37, you see the asset  
17 class returns. On page 38, the manager  
18 returns versus their benchmarks. So unless  
19 there are any questions, those were my  
20 prepared remarks.

21 MR. AARONSON: Anybody? No question or  
22 comment? Thank you, Martin.

23 MR. GANTZ: Thank you.

24 MR. EVANS: Okay. The second item on  
25 our agenda is a proposal that we have

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1 regarding diversity, and if you turn to page  
2 68 of the big book, which isn't so big this  
3 month, we can take a look at this. Just  
4 giving you the highlights here. We are not  
5 going to go into any depth.

6 We are very proud of the progress that  
7 we made together on the topic of diversity in  
8 the asset management business. We now have  
9 systemwide 11 billion dollars with emerging  
10 managers, over 6 and a half percent of the  
11 portfolio widely measured. It's a very proud  
12 tradition that we plan to go beyond, and one  
13 of the ways we think we need to go beyond,  
14 without giving up any of the efforts that we  
15 had historically in emerging managers, is to  
16 begin to evaluate diversity of prospective and  
17 existing managers across all asset classes. So  
18 not just endeavor to have a certain percent of  
19 managers that are diverse, 51 percent owned by  
20 minorities and women MWBEs, but to go beyond  
21 that and look for diversity across the entire  
22 portfolio in all of our managers and that's a  
23 big step and so I want to take you through why  
24 I think it's a fiduciarily sound step and one  
25 that is in the best interest of our

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1 participants viewed purely from the prism of  
2 their financial well-being.

3 I think we want to recognize managers  
4 with strong diversity profiles just like we  
5 want to recognize managers that have strong  
6 succession plans, managers that have robust  
7 decision-making cultures, managers that have  
8 strong performance records, and managers that  
9 have sound practices with regard to society  
10 and the environment and so forth. This is  
11 good business. It's indicative of strong  
12 managements and it's indicative of  
13 well-performing organizations.

14 We would like to integrate diversity  
15 into our consultant searches as well as their  
16 manager selection, and we would like to  
17 promote consideration of diversity in  
18 decision-making by the managers that we have  
19 by other institutional investors in the  
20 management evaluation process.

21 So why do I say this? Is this a social  
22 agenda that I have or the Comptroller has or  
23 that you have? No, I don't think that's the  
24 reason for it. I think the reason for it is  
25 it's sound decision-making. It's good

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1 business. And that's because, simply stated,  
2 diverse groups make better decisions. There  
3 is just absolutely no question about the fact;  
4 it's scientifically proven. Diversity  
5 improves decision-making, and most  
6 importantly, there is evidence -- and I will  
7 get through some of the evidence in the next  
8 slide -- that it fights groupthink. And  
9 groupthink where an organization or any  
10 decision-making team will begin to talk  
11 themselves into a certain course of action  
12 because they all agree with each other and  
13 they are talking to themselves is one of the  
14 most dangerous group phenomenon in investment  
15 management. Many investment firms and in  
16 fact, the whole industry is occasionally  
17 subject to groupthink and it is very dangerous  
18 and it can lead to very bad outcomes.

19 So if you have a person or multiple  
20 people in any decision-making group that think  
21 differently, the group is going to come to a  
22 stronger decision. So when we underwrite  
23 managers, when we look at consultants, when we  
24 hire vendors, when we see diverse  
25 decision-making teams, we think that's a good

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1 thing because they have not surrounded the  
2 leaders with people that think like  
3 themselves, that are effectively talking to  
4 themselves. They surround themselves with  
5 people that think different, act different,  
6 approach problems differently.

7 So we think this creates a competitive  
8 advantage, and we think as well in this  
9 society, which is beginning to value diversity  
10 on other dimensions that it can decrease  
11 litigation and regulatory risk. But the real  
12 reason that I think that we ought to consider  
13 this as sort of putting it in as part of our  
14 formal decision-making process is the  
15 decisions made by diverse groups tend to be  
16 stronger.

17 You can see in the next page, National  
18 Academy of Sciences in 2014, they studied  
19 traders and they found that the traders who  
20 were diverse decision-making groups had a  
21 greater ability to calculate accurate pricing  
22 and true value. McKinsey in a broader study  
23 also in 2014 kept finding companies in the top  
24 quartile of racial and ethnic gender basis  
25 were more likely to have above-average

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1 immediate returns, and Credit Suisse did one  
2 study on women in the board that concluded  
3 that they were associated with higher returns.

4 So these things put together I think  
5 gives us strength that we ought to think about  
6 this. There is another thing that's going on  
7 here, and I know I am preaching to the choir.  
8 We are living in an increasingly diverse  
9 society. We just got a couple population  
10 issues on the bottom here. The national  
11 minority population will be a majority by 2060  
12 currently in New York City. If you look at  
13 the makeup of our population in the five  
14 boroughs, white people in the white group are  
15 about 35 percent. That's a good number. It's  
16 33 actually. That's a good number to hang  
17 onto as I go to the next slides because in our  
18 industry, an industry that should be more  
19 likely than most to have diverse decision  
20 makers for the reasons that I articulated, the  
21 numbers don't look like that at all.

22 The financial businesses are  
23 headquartered in New York City, yet when you  
24 look at portfolio managers broadly, as you can  
25 see, 83 percent of portfolio managers are

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1 white, 82 percent of senior portfolio managers  
2 are male, and 90 percent of senior portfolio  
3 managers are white. The worst by far is  
4 something that's irrelevant to you guys but  
5 it's emblematic to the industry.

6 MS. MARCH: White men. Don't leave that  
7 out.

8 MR. EVANS: I am about to get there,  
9 Sandy. The hedge fund industry, which is the  
10 strongest case here, 97 percent of managers  
11 are white males. So when it comes to the  
12 diversity, it's not so much a diversity  
13 problem. It's the homogeneity problem. The  
14 business we are in is very homogenous with  
15 white men dominating the business, and that  
16 leads to a disequilibrium in terms of  
17 achieving diversity. So we need to be  
18 proactively searching out groups that in spite  
19 of these population statistics are finding  
20 ways to get diverse decision-making.

21 MR. AARONSON: Can I just -- I have to  
22 brag about Teachers' Retirement System for a  
23 moment. Teachers' Retirement System is an  
24 important part of a group called Mass Fast  
25 Track. Under the Fast Track program, the Mass

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1 Group tries to get inner-city youths to get  
2 jobs in the investment area, and I would like  
3 to say that Teachers' Retirement System every  
4 year hires several people from that group for  
5 some summer work. I know that some of the  
6 Police Department hires at least one -- Police  
7 Pension Fund at least one person in that. I  
8 don't know what the figures are for the  
9 Comptroller's Office. The Mayor's Office I  
10 believe the figure is zero but this summer is  
11 just coming, and we are looking to get as many  
12 of these minority youths who participate in  
13 the Fast Track program internships of various  
14 kinds. We have the greatest need for high  
15 school students. Many of our Fast Track  
16 college kids do get placed but our high school  
17 kids do not, and even if it's a job working  
18 with the professionals in our various  
19 agencies -- they don't have to do necessarily  
20 professional work. If they see how people  
21 dress when they go to work, they see how  
22 people talk to one another when they go to  
23 work, and all of these things, we weed down to  
24 the good of these kids.

25 So the Fast Track program, I urge the

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1 Comptroller's Office, I urge the Mayor's  
2 Office to see and get in touch with them, and  
3 we can help you get in touch with them and see  
4 if we can put to work some inner-city youth in  
5 the summer in the investment area.

6 MS. VICKERS: Absolutely.

7 MS. MARCH: And I want to add one other  
8 thing and it is impatient, but the other thing  
9 that this Board has done, and it's 30 years in  
10 passing with our tax-deferred annuity money,  
11 30 years ago working with our consultant, at  
12 that point we set up a baseball team and  
13 that's what we called it. And 30 years ago,  
14 we gave minority managers 15 million dollars  
15 each, and some of them graduated into the big  
16 leagues.

17 But what is very frustrating is Scott,  
18 how do we do it? How do we break the barriers  
19 down? Not what we have to do. We know what  
20 we have to do. I am looking for the formula  
21 of how do we call in all those large  
22 investment firms and get them to do what on  
23 paper we know about because the pieces of  
24 paper don't mean anything. We have been  
25 looking at the paper for the 30 years that I

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#### Proceedings

1 have served as a trustee and you know what?  
2 For the 54 years that I have been an educator,  
3 we have not been able to educate the Street.  
4 So tell us what we have to do. We know it.  
5 What I need to know is how are we going to do  
6 it.

7 MR. EVANS: Excellent. Great lead-in.  
8 So what I was trying to set up is the reason  
9 we do it, which I knew I was preaching to the  
10 choir but I had to go through the motions and,  
11 I think the Mass program and others are  
12 fantastic because they are helping us solve  
13 the problem of not enough people of color and  
14 women in the workforce in our industry.

15 But I think one of the central problems  
16 is that when we -- when we look to support and  
17 recognize diversity in the workplace in the  
18 asset management business, we are doing it  
19 sort of exclusively in the MWBE realm. So I  
20 will just give an example.

21 The Comptroller's office looks like the  
22 United Nations. When I walk through the halls  
23 of BAM, when I walk through the halls of  
24 auditing, through the halls in the accountancy  
25 and I look around the executive boardroom,

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1 there are a huge number of women, there is a  
2 huge number of people of color. White males  
3 are actually in the minority in this  
4 department. But it happens to be headed by a  
5 white male, and if it were a private company,  
6 he would no doubt not qualify as an MWBE and  
7 the problem is that there are firms like that.  
8 Maybe not quite to the extent of Teachers'  
9 Retirement and the Comptroller's office that  
10 are actively working in programs at the bottom  
11 levels of the organization as well as  
12 promoting and grooming talent at the mid and  
13 upper levels, and we have no way of calling  
14 that out and recognizing that and  
15 distinguishing the Wall Street that is  
16 proactively trying to address the diversity  
17 problem in the asset management business from  
18 the Wall Street that's ignoring it. And an  
19 awful lot of Wall Street is ignoring it  
20 looking at these stats.

21 So what we want to do is be able to call  
22 out the good guys and give them recognition  
23 but we also -- and here is where the rubber  
24 meets the road, Sandy, from our perspective.  
25 If we formally put having a diverse

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1 decision-making team as one of the attributes  
2 that we look for when we select managers, now  
3 we are doing something that is going to get  
4 attention.

5 The other thing that we need to do in  
6 order to make this real, in order to have  
7 people not just kind of have their  
8 decision-making teams with the folks that  
9 helped the team to look diverse, we want to  
10 look at not only representation. We want to  
11 look at compensation.

12 The only way to really understand who  
13 the decision makers are that matter is to  
14 understand compensation. So when we survey  
15 these firms or we get to whether or not these  
16 firms are truly diverse, we will look at the  
17 diversity on the board from a race and gender  
18 profile. We will look at the diversity of the  
19 investment professionals, and we will look at  
20 the composition of the compensation by race  
21 and gender of the investment decision-making  
22 team.

23 I have already been to meet with HR  
24 managers in some of the largest Wall Street  
25 firms. We have been to some mid-size firms.

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#### Proceedings

1 We have a number of Wall Street firms that are  
2 actively engaged with us to do this. I think  
3 the Wall Street that is trying to solve the  
4 diversity issue is active or is actively  
5 wanting to show what they have done and get  
6 credit for it.

7 Make no mistake about it. Their  
8 interests are selfish. Wall Street's  
9 interests are always selfish. But their  
10 selfish interest is diverse decision-making  
11 groups make better decisions. So they  
12 recognize this and there are some firms trying  
13 to capitalize on this and make a competitive  
14 advantage of that.

15 For all the reasons I outlined, we want  
16 to recognize them. We want to give them as  
17 much credit as we give to emerging managers.  
18 We are not going to stop at all giving credit  
19 to emerging managers, but we need your  
20 permission to involve this type of things in  
21 the due diligence questions that we have when  
22 we do proposals and in seeking the information  
23 as a formal part of our procurement process.  
24 The Comptroller can't do this alone. The  
25 Comptroller is one vote on the board.

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1 MS. MARCH: Listen, as an individual and  
2 I think as a board, we have no problem asking  
3 the firms the questions. And you know what?  
4 If you went into any agency and most private  
5 places in the City of New York, you are going  
6 to find diversity in employment. Because the  
7 people who live there happen to be, many of  
8 them, minorities. But you know what? The  
9 problem is not going to be resolved by having  
10 a sheet of paper that tells me these Wall  
11 Street firms have a lot of minority  
12 employment. The problem is only going to be  
13 resolved when those minorities are getting the  
14 same compensation and are at the same level  
15 and we have --

16 MR. EVANS: This is why we ask the  
17 question about compensation.

18 MS. MARCH: We can do it. I don't have  
19 a problem with it. I just think it's another  
20 step. I am really not sure what it resolves.  
21 I am truly not sure what it resolves.

22 MR. EVANS: So let me take that  
23 challenge, Sandy, because I think it's a good  
24 question. We have three different firms,  
25 okay, that we are looking at and they are

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1 equal in all other regards. We cannot make  
2 this -- legally we cannot make this -- we  
3 can't score -- and Jimmy Yan is here. He has  
4 done a lot of the work on this, has researched  
5 it. We cannot have a formal score on this  
6 item. It has to be part of the mosaic that we  
7 use to select the firms. So that's why I am  
8 going to set up the following things.

9 The firms are identical. This would  
10 never happen but they are identical in all  
11 other ways, these three firms. However, one  
12 firm -- and there are eight people in each  
13 firm. They are a small firm. One firm is all  
14 white guys from Williams. I can almost say --  
15 I am a white guy from Tufts but it doesn't  
16 rhyme, so they are all white guys from  
17 Williams and they do a good job. We are close  
18 to hiring, they are a fine firm and there  
19 would be nothing wrong with hiring but we can  
20 only hire one firm.

21 The next firm is eight people, and you  
22 have got three white males, the rest are  
23 women, minorities, variety of things. Good  
24 diversity, certainly relatively to the  
25 all-white-male firm, but when we get the

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1 compensation information back, we find out  
2 that 85 percent of the compensation goes to  
3 the three white males.

4 Okay, and then the third group, it has  
5 the same racial and ethnic division. But in  
6 that case, you know, an exactly pro rata  
7 version. More than, you know -- way less than  
8 85 percent is going to the white males. So  
9 it's diverse not only in number and in  
10 representation, but it's diverse in weighted  
11 compensation. So the people of color and the  
12 women are actually getting paid like the  
13 people -- the white males and it's that  
14 element and it's essential to have that  
15 element. I think you are quite right, but  
16 it's that element that I think differentiates  
17 this and makes it more real.

18 MR. AARONSON: You don't think if Jamie  
19 Dimon knew he couldn't get any business, he  
20 wouldn't hire a couple of people, pay them  
21 large sums of money to do nothing anyhow just  
22 so he can say diverse and paying high money?  
23 These people have no ethics. They are  
24 irresponsible. As you said, they are only  
25 interested in making money, and yes, all these

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1 things we should try but --

2 MS. MARCH: -- let's not color them  
3 differently than they should be colored.

4 MR. AARONSON: We understand they are  
5 going to do every trick they can to respond to  
6 you, including investing a few hundred  
7 thousand dollars in salary so they could get  
8 millions of dollars in commissions and income.

9 MR. EVANS: So this is a really  
10 important detail and we have thought a lot  
11 about this. First of all, without agreeing  
12 with everything you just said because I don't  
13 agree with all of it, but I agree with the  
14 sentence that Wall Street firms, their  
15 objective function is to maximize the present  
16 value of their cash flow. So that's their job  
17 and they -- that's the lens that they look  
18 through everything. In order to get business,  
19 they will do a lot of things to look good.  
20 The one thing they won't fool with is  
21 compensation. And the reason that they won't  
22 fool with that is the whole ethos of the  
23 place, the whole way that the relative value  
24 works out gets destroyed.

25 And so they might fool with

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1 compensation, Mel, if we just looked at what  
2 are the -- what the portfolio management team  
3 that works for New York City looks like. I  
4 agree they might fool with that. That's not  
5 what we are asking. We want to see all the  
6 investment professionals in the firm. They  
7 are not going to fool with that.

8 New York City, as big as it is, and the  
9 public pension systems, as big as it is, it's  
10 not worth it for these Wall Street firms to  
11 fool with this because it will destroy the  
12 whole fabric of the organization if they were  
13 to begin paying people in a nonmeritorious  
14 way. So I think we really are zeroing in on  
15 the heart of how these firms are built, and I  
16 think that there are a lot of firms that are  
17 trying very hard to deal with this, and I  
18 think we ought to recognize those that are  
19 doing a better job than others because how are  
20 we going to get the herd to move in the right  
21 direction.

22 MS. MARCH: Let me tell you how far they  
23 go. The retirement systems here in the city,  
24 whichever one you are talking about, they have  
25 a reputation out in the world. And what they

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1 have learned to do is bring in an attractive  
2 woman who they make a market of to sit on the  
3 other side of the table so that those of us  
4 who are from the City of New York and  
5 understand that women in the City of New York  
6 have the ability to go as far as men can go,  
7 feel more comfortable. They play with us all  
8 the time, Scott. They have.

9 The bottom line here is this is a  
10 program, if it works so that we will select an  
11 investment company because they have become  
12 truly naturally diversified in their  
13 employees, then that will be a wonderful  
14 thing. If it's a statistic that is going to  
15 be on paper, it's not any different than they  
16 have been doing for years.

17 MR. EVANS: But you see, the showing up  
18 at the meeting with, you know, their diversity  
19 team, what members they can get together for  
20 the team -- and I always make sure to ask  
21 everyone questions when they come to visit us,  
22 but you can't do that if you are asked to  
23 supply information for your entire  
24 professional work force. In these jobs, you  
25 can't, you know, sort of select one or two

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1 that come. So that's the reason we are asking  
2 the questions the way that they are.

3 I believe this will move the ball  
4 forward. Do I think this is the be-all and  
5 end-all, Sandy, that this will solve diversity  
6 on Wall Street? No, no, I am not suggesting  
7 that. I am saying this is a reasonable next  
8 step for us to take in our ambition to promote  
9 a more diverse Wall Street and to basically  
10 recognize those that have become enlightened  
11 or relatively enlightened about the importance  
12 in diversity.

13 MS. MARCH: I think my reaction is  
14 Scott, I think I just want you to know that  
15 this is something that we have been trying --

16 MR. EVANS: I know it is.

17 MS. MARCH: -- for years.

18 MR. EVANS: I know it is.

19 MS. MARCH: And if this step helps it a  
20 little bit more, fine, but this is not a new  
21 item to us.

22 MR. EVANS: I know it isn't. Look, I  
23 completely realize that I am preaching to the  
24 choir here, that you guys are worked for years  
25 and years and years to make progress and we

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1 have made progress. Six and a half percent of  
2 the portfolio, 11 billion dollars across the  
3 systems. It's a proud history and I am  
4 honored to be part of an organization that's  
5 done this. I just am looking for something  
6 that we can push further, and that's why I  
7 make this proposal.

8 MR. AARONSON: So I think you have the  
9 complete support of the Teachers' members and  
10 this only -- we will keep watching and seeing.

11 John?

12 MR. ADLER: I just want to say that the  
13 Mayor's office supports this initiative as  
14 well. I have sat in on different public  
15 pension fund investment committee meetings  
16 over the years where the managers that have  
17 come to present have been explicitly  
18 questioned about the diversity of their  
19 professional ranks, and the presentations that  
20 are provided to the trustees include that  
21 information. So for example -- you know, so  
22 we are not getting that currently. So if we  
23 think about the presentations that we recently  
24 had, those books and the analyses from our  
25 consultants don't indicate what is the

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1 diversity of the professional ranks of these  
2 managers. So that would be an immediate step  
3 that I think the Comptroller's office could  
4 take is ask the managers who are presenting to  
5 the Board to tell us what is the diversity of  
6 their ranks up and down, from the senior  
7 portfolio manager or higher executive ranks  
8 down through the organization.

9 MR. EVANS: So in this proposal, John,  
10 which is not quite as far-reaching as what you  
11 just said, we would -- because we want to get  
12 participation in this, we are asking for very  
13 deep data on a particular group of investment  
14 professionals, which is where we keep it.

15 MR. ADLER: That's fine.

16 MR. EVANS: So if we keep it as a formal  
17 question in our procurement process, it will  
18 have that desired effect. We can also ask  
19 them to report on it when they come before the  
20 Board to make their pitch, but it has to be a  
21 part of the procurement process in order for  
22 us to make --

23 MR. ADLER: But for example, consultants  
24 do due diligence. For example, you know, like  
25 it's -- take the real estate investments that

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1 we just approved recently. No information --  
2 I am saying this is a new initiative, I  
3 understand, but you can easily ask our  
4 consultants to provide that information as  
5 part of the diligence process.

6 MR. EVANS: That's part of the  
7 portfolio.

8 MR. ADLER: Fantastic.

9 MS. MARCH: It should -- I think what  
10 John is saying when you select the group of  
11 managers that we are going to consider to be  
12 investors of our money, then I think what John  
13 is saying is when we get your book of  
14 material, it should include that information.

15 MR. ADLER: Right.

16 MR. EVANS: Yes. We will work towards  
17 that. We want to.

18 MS. MARCH: But I think that that's what  
19 we are requesting. If we are going to do  
20 this, this is not a secret society. This has  
21 got to be -- once the Comptroller's office as  
22 our investment advisor gathers that  
23 information, during the process of selecting  
24 managers, I think the trustee should know the  
25 result of that, and we should understand just

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1 like we understand everything else if we are  
2 doing this.

3 MR. EVANS: You would have the same  
4 right to understand that -- you know, the  
5 answers to questions of any procurement  
6 process, and we will make sure that we put  
7 together a disclosure that is acceptable to  
8 everyone.

9 MR. ADLER: Great.

10 MR. EVANS: We want to be careful  
11 because we are asking for pretty deep  
12 information from managers that we protect what  
13 needs to be confidential and disclose what  
14 needs to be disclosed and so we will --

15 MS. MARCH: Well, there is nothing  
16 secret in my public life about me, so  
17 therefore I am saying in their private life, I  
18 want the same information. The whole world  
19 knows what my earnings are. The whole world  
20 knows my age. They know everything and I want  
21 to know the same thing about them.

22 MR. EVANS: We will work to find the  
23 right balance.

24 MS. BEYER: Mr. Chairman?

25 MR. AARONSON: Charlotte?

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1 MS. BEYER: What about current managers?  
2 Are we asking for the same thing from them?  
3 And then second part of my question is you  
4 mentioned the word "recognize those who do".  
5 What mechanism do you anticipate there other  
6 than the mosaic of your judgment?

7 MR. EVANS: So when we go out and talk  
8 about the diversity in the portfolio today --  
9 when I first got here, we talked about the  
10 statistics about emerging managers. And  
11 emerging managers legally are just small  
12 managers. And I looked through the list and I  
13 saw quite frankly too many firms that were  
14 white guys from Williams that happen to have  
15 small firms that qualified as emerging  
16 managers. I said this doesn't make sense to  
17 me. The whole point of this program is  
18 diversity. They said well, it's illegal in  
19 California to talk about, you know, diversity.  
20 So I said we are not in California; we are in  
21 New York, as far as I know. And so we went  
22 through this, and you know, worked with legal  
23 and so forth and so our emerging manager  
24 program is still broad. It still includes  
25 small firms, and it could include

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1 all-white-male small firms but we don't -- we  
2 don't talk about the emerging manager totals  
3 anymore. We talk about the MWBE totals, so  
4 when I talk about our progress in diversity  
5 and minority and women managers, these are  
6 certified MWBEs either in New York City or in  
7 New York State and have met those criteria and  
8 that's the 11 billion dollars, the 6 and a  
9 half percent. The emerging managers totals is  
10 actually higher, so when we talk going  
11 forward, Charlotte, we would talk about MWBE  
12 and diverse managers, and diverse managers  
13 will be defined based on these criteria, and  
14 diverse managers can be very large managers.  
15 There is nothing, you know, that would benefit  
16 them from their size. It would have to do  
17 with what's the diversity, racial and ethnic  
18 diversity of their board, their investment  
19 professionals. By the way, if there is too  
20 much slippage between the compensation  
21 diversity and representation diversity, they  
22 wouldn't qualify.

23 MS. BEYER: But the first question, what  
24 about current managers because when you talk  
25 about recognizing and making a change, one of

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1 the best ways to get change is to measure it,  
2 and it would seem to me since nothing is  
3 private, what about that?

4 MR. EVANS: Well, we are today giving  
5 our current managers the opportunity to  
6 disclose this information to us and the  
7 opportunity to be recognized as diverse  
8 managers. It will have to be that with  
9 existing managers. However, if you want to be  
10 a new manager and new procurement, it will be  
11 required that you disclose this information,  
12 with your blessing, as part of the procurement  
13 process.

14 MS. BEYER: And the recognition factor  
15 it would seem to be, if you look at something  
16 like minimum wage, gets contagious. So now  
17 McDonald's is doing it, international. Aetna  
18 was the first and I am just wondering if by  
19 recognizing the current managers who are doing  
20 a decent job about this, if there are, it  
21 would be perhaps contagious, and people will  
22 say oh, we better get cracking.

23 MR. EVANS: Charlotte, you are  
24 absolutely right. This is why I spent a fair  
25 amount of time in the past few months in

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1 Midtown talking to HR directors. I point you  
2 to proxy access and the success we had. Look  
3 what happened since General Electric  
4 voluntarily decided to let shareholders have a  
5 vote in proxy access. Suddenly firms are  
6 falling all over themselves to get on the  
7 right side of Scott Stringer and Ted  
8 Eliopoulos and Chris Ailman and so forth. So  
9 -- and TIAA-CREF. So this is what we are  
10 hoping for and we have some firms that are  
11 actually pretty progressive in their thinking  
12 on this topic. It's tough. I mean, you see  
13 in the population statistics, real tough.  
14 Well, you guys don't see hedge fund managers,  
15 but we have hedge fund managers. It's over  
16 250 million dollars in our system, but when  
17 you see real diversity at the senior levels in  
18 our business, it is truly rare. It is very  
19 difficult to achieve, and we need to recognize  
20 it when it happens.

21 MR. AARONSON: So do I hear some  
22 reluctance on your part, Scott, for going into  
23 our current managers and asking them the same  
24 exact question?

25 MR. EVANS: No. I just can't require  
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1 it. I can only require it as part of the  
2 procurement process.

3 MS. MARCH: Can we have a legal opinion  
4 that we can't require it?

5 MR. AARONSON: You can ask them and then  
6 give us a list of those who refuse, and their  
7 contracts come up, I mean, we may not be able  
8 to --

9 MS. VICKERS: When their contract comes  
10 up during the next procurement cycle.

11 MR. AARONSON: That's what I think. If  
12 we ask each of our current managers and then  
13 any that do not want to respond, let us know  
14 which ones.

15 MR. EVANS: You know, Mel, what I want  
16 to do first, if it's okay with you, what I  
17 would like to do first is get one or two big  
18 ones to sign up and make a big splash about it  
19 when they do and we can recognize them as  
20 diverse and give everybody a little chance to  
21 fall into line. I think that will happen  
22 pretty quickly and I think that means the list  
23 of those that refuse to give this information  
24 will be quite small, but if we go negative  
25 right from the beginning, it will create sort

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1 of an unnecessary adversarial relationship. I  
2 think this will actually -- to Charlotte's  
3 point, I think this will --

4 MR. AARONSON: As long as we understand,  
5 start it the way you think. You are looking  
6 at it for a long time, much longer than I have  
7 been thinking about this for the last half  
8 hour.

9 MR. EVANS: Well, you have been thinking  
10 about the topic a lot longer than that.

11 MR. AARONSON: On and off different  
12 times but not months.

13 MR. EVANS: Not this specifically.

14 MR. AARONSON: So you have a plan in  
15 your head. Go after the ones now, but  
16 remember that this board would like eventually  
17 -- and "eventually" doesn't mean in decades --  
18 that we would like to have each of our  
19 managers be asked the same question that we  
20 are going to be asking.

21 MR. EVANS: I get it. I have your total  
22 support to be pretty strong with them.

23 MS. MARCH: Because I would think  
24 historically -- I don't know how often we  
25 change over managers a lot. So if we

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1 historically looked at our last 30 years, how  
2 diversified is our manager selection  
3 especially with the largest portion of our  
4 assets, so if we are not starting with that,  
5 then this will be another 30 years before we  
6 move the penny anywhere.

7 MR. EVANS: And not to play lawyer, but  
8 I just want to caution you that we are not  
9 able to make this the sole reason that we, you  
10 know, decide for or against.

11 MR. AARONSON: Don't you have sort of a  
12 box graph when you --

13 MS. VICKERS: It's one factor among  
14 many.

15 MR. AARONSON: When we hire somebody, I  
16 see often a chart, this is 10 percent, this is  
17 15 percent, and how they rate in each thing.  
18 So make this 10 percent. You know, I don't  
19 have any figure but it's a required part and  
20 it has a certain percentage whether we hire or  
21 not.

22 MR. EVANS: Absolutely right. We will  
23 be on that and thank you for your consensus on  
24 this.

25 MR. AARONSON: Good.

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1 John?

2 MR. ADLER: I have just one more  
3 question which I am not clear on and maybe you  
4 are not either yet which is -- you know, so we  
5 are going to recognize managers that are  
6 diverse. How do you define "diverse"?

7 MR. EVANS: So the thought I have in my  
8 mind is not scientific at all. Sort of what's  
9 the bar look like in the absence of any  
10 information. Well, I have to anchor it to  
11 something and the state definition for MWBE is  
12 33 percent, so I have that 33 percent number.  
13 So no more than two-thirds and I prefer to  
14 look at it in homogenous terms. So you know,  
15 the white males, for instance -- or any group  
16 but it's usually white males -- couldn't be  
17 more than two-thirds of the group.

18 But I want to get the numbers because we  
19 are dealing with a population that is so  
20 challenged in this topic that we may have to  
21 start the bar lower so to recognize those that  
22 are leaders, and then as people begin to get  
23 better, we will keep it sort of top quartile  
24 or something like that in terms of diversity.

25 So I don't have a total answer for you

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1 and I think the -- you know, a good sense of  
2 what's the appropriate bar will come in when  
3 we do get all that information and say okay,  
4 this is a top quartile manager in terms of  
5 diversity so -- and that's top quartile sort  
6 of where I am going or top third.

7 MS. VICKERS: We would like to come back  
8 to the boards once we get permission to move  
9 to the next level and talk through all those  
10 details together.

11 MR. AARONSON: I am sure if any board  
12 member came to you with an idea that we don't  
13 think of right at this moment, we will  
14 incorporate it.

15 MR. EVANS: Oh, yes. Look, the work  
16 that you guys have done over the past 30, 40  
17 years has spurred us to try to think outside  
18 the box of what we can do to continue the good  
19 work. We are all ears if you guys have any  
20 ideas about how we could do this better. We  
21 really are and we appreciate your support.

22 MS. TUMILTY: Hi.

23 MR. AARONSON: Why don't you introduce  
24 yourself?

25 MS. TUMILTY: Sure. I am not David

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1 Levine. I am Ally Tumilty. I work with David  
2 Levine at Groom Law Group. We are outside  
3 counsel.

4 Thank you, Scott, for playing lawyer. I  
5 think you actually did a very good job on it,  
6 and I want to follow up on a little mismatch I  
7 thought I heard. You spoke about not  
8 assigning an actual value to diversity, and I  
9 believe Mel used the term like 10 percent.

10 MR. EVANS: What we will do -- and Jimmy  
11 is my lawyer and can direct me, but what we  
12 will do is there will be a score sort of  
13 rating on diversity so we can compare one firm  
14 to the other. That score won't be a fixed  
15 weight in the scoring process. There is legal  
16 precedent that has found that to be illegal.

17 MR. YAN: We can continue more of this  
18 discussion in executive session too.

19 MS. BUDZIK: Right.

20 MR. EVANS: So we are going to be very  
21 careful when we do this on absolutely safe  
22 legal ground and will not push this too far,  
23 but for the same reason that we look at track  
24 record, we look at succession plans, right,  
25 there is no specific number on succession

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1 plans, but it's part of our due diligence  
2 process. Is the decision-making team diverse  
3 is something we think is important.

4 MS. TUMILTY: Thank you.

5 MR. AARONSON: Okay. Anybody else have  
6 any comment? Yes? Thank you. I think this  
7 is a project that everybody is going to look  
8 forward to working on and accomplishing.

9 MR. EVANS: I guess our next thing is  
10 the education presentation from Rocaton.

11 MS. PELLISH: I think everyone received  
12 this electronically already but we have  
13 additional copies, and this is intended to be  
14 responsive to the Board's request for both BAM  
15 and Rocaton to collaborate on a series of  
16 brief, hopefully helpful educational topics  
17 and this is the first in the series. I think  
18 we talked about a potential list of topics at  
19 the last meeting, so what we are going to  
20 focus on today is what investor manager  
21 performance can tell us.

22 And if we can turn to the introduction,  
23 we wanted to spend some time on this topic  
24 because the Board spends a lot of time on this  
25 topic and the investors, both in general and

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1 retail, spend a lot of time on this topic and  
2 I thought it would be useful to have a  
3 discussion about what historical performance  
4 can and can't tell us. What is it useful for?  
5 The art of performance measurement --  
6 and it is an art -- has expanded over the past  
7 decade beyond simple examination of actual  
8 returns to include examination of risk  
9 characteristics, to look at style-specific  
10 benchmarks, and to look at peer groups and we  
11 are going to look at what all of that means.  
12 I think if I had one takeaway from this topic,  
13 it would be that historical performance is  
14 most useful as a guide to whether a manager is  
15 meeting risk and return expectations or not,  
16 and if they are not, to spur additional due  
17 diligence. Beyond that, performance --  
18 historical performance simply doesn't tell us  
19 much. We spend a lot of time looking at it,  
20 but I think it's really most useful as a guide  
21 or an indication as to when you really need to  
22 dig deeper and ask more questions and uncover  
23 potential events or issues that are causing  
24 the pattern of returns to deviate from  
25 expectations.

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1 So if we can move forward, we have on  
2 the next page, page 3, some definitions. I  
3 suspect this group is very familiar with all  
4 these definitions because we use them a lot,  
5 but just to set a common ground, in  
6 performance, when we talk about both absolute  
7 returns, which are just really the numbers  
8 that have been generated, and relative  
9 returns, because while absolute returns are  
10 important because that's what you have  
11 generated, we, in many asset classes -- not  
12 all asset classes but in many asset classes,  
13 we have the option to index.

14 And I would say I think it's been the  
15 Board's practice in the past and it's  
16 certainly Rocaon's perspective that the  
17 retention of any active management strategy  
18 has to always be contrasted against the  
19 low-cost alternative, which is indexing. And  
20 the default decision is to index where  
21 possible. That's not possible in every asset  
22 class, but it's certainly possible in the  
23 asset classes that are most heavily used in  
24 both the Variable and Pension Funds and so we  
25 always want to be looking at returns relative

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1 to the low-cost passive alternative.

2 And we are assuming here, although we  
3 didn't explicitly state it, that we are always  
4 looking at returns net of fees because returns  
5 gross of fees simply aren't that useful. We  
6 also want to make sure we are not only looking  
7 at returns, we are looking at the risks that's  
8 been assumed to generate those returns, and I  
9 use a simple example of if you have two  
10 managers, one that at the end of five years  
11 generated an average annual return of 7  
12 percent per year but one has had significant  
13 volatility and one has had very little  
14 volatility, you always prefer the manager with  
15 less uncertainty. Volatility is nothing more  
16 than uncertainty, and so less risk is better.  
17 Less risk is also typically associated with  
18 less return.

19 But we want to make sure that the  
20 pattern of risk is consistent with what we  
21 expect both in terms of volatility or standard  
22 deviation as well as downside volatility,  
23 which is just what you have experienced in  
24 terms of negative returns, and then we also  
25 want to look at tracking error because each of

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1 these in the public markets, we are retaining  
2 managers to outperform their benchmarks. We  
3 want to understand what risk they are taking  
4 relative to the benchmark.

5 Now, risk is not a bad thing  
6 necessarily. But we want to make sure we are  
7 compensated for risk, and we want to make sure  
8 that the risk that is being taken is  
9 consistent with what we expect. So we marry  
10 the performance information and the risk  
11 information to generate risk-adjusted  
12 performance and you see that in the Variable  
13 Funds returns that the reports have been  
14 adjusted and I think improved to reflect  
15 those. So we will look more at risk-adjusted  
16 returns.

17 So -- and please stop me if there are  
18 any questions or I am not being clear in the  
19 report. So let's go to page 4, and page 4  
20 takes a look at some of the managers that are  
21 currently in the Variable Fund program. These  
22 are the managers that are in the Diversified  
23 Active Manager program. And it's a pretty  
24 eclectic group. Lots of different styles.  
25 And what we have done here is generate a score

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1 card. This is actually something we use with  
2 many of our clients. And what it does is it  
3 looks only at relative returns because for  
4 this exercise we are not interested in what  
5 the absolute returns are. These are all  
6 public equity managers so we could have  
7 indexed this entire allocation.

8 So we are interested in how the managers  
9 have done on both the risk and return basis  
10 relative to the appropriate style-specific  
11 benchmark. And on the first set of columns,  
12 you see excess returns. So we have 3-year  
13 average analyzed excess returns. So that's  
14 simply the return minus the benchmark return,  
15 whatever their appropriate benchmark was.  
16 Then we look at that over the past five years,  
17 and then importantly, we compare it to what we  
18 would expect. And these again, we are only  
19 looking at net returns. This is after  
20 management fees, and in a minute I will tell  
21 you how we developed those excess return  
22 expectations. Let me keep going.

23 The next set of columns are tracking  
24 error, and that's the risk relative to the  
25 benchmark. So that's just how volatile are

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1 the patterns of the managers' excess returns  
2 relative to the benchmark. So if the  
3 managers' excess returns were exactly equal to  
4 the benchmarks every year, it would be zero  
5 tracking error and you wouldn't hire them. So  
6 you want some tracking error. You are hiring  
7 an active manager. They are supposed to have  
8 tracking error. That's the only way you can  
9 generate excess returns is to have some  
10 differences to the benchmark, but we have  
11 tracking error indications and we measured  
12 both the three- and five-year tracking error  
13 relative to expectations.

14 We marry the excess returns to the  
15 tracking error and we get a ratio and that's  
16 just called the information ratio. How much  
17 return over the benchmark have we generated  
18 for every unit of risk relative to the  
19 benchmark. So everything is relative to the  
20 index that we could have used, and we compare  
21 that to our expectations. So the most  
22 important thing about this chart is that we  
23 have expectations. So rather than trying to  
24 say is this a good, bad, or different number  
25 that we have generated from the manager, we

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1 have expectations. And the way we develop the  
2 information ratio expectations is that we  
3 actually look at peer groups that each one of  
4 these managers falls into, and we say over the  
5 past five years what was the -- over rolling  
6 five-year periods, what was the top 40th  
7 percentile? So slightly above median. What  
8 was the top 40th percentile of managers in  
9 those peer groups actually able to achieve?  
10 MR. ADLER: That's in terms of  
11 information ratio or in terms --  
12 MS. PELLISH: Information ratio.  
13 MR. ADLER: Okay. So that number is the  
14 40th percentile number?  
15 MS. PELLISH: Yes.  
16 MR. EVANS: So do you find -- while we  
17 are on this topic, you are basically saying  
18 what's good, what kind of information ratio is  
19 good. Well, large-cap value, good may be, you  
20 know, .2 or 20 percent of the chatter, the  
21 standard deviation of benchmark returns versus  
22 the portfolio return. Large-cap growth may be  
23 .08. How stable is that over very long time  
24 periods, you look at rolling five-year  
25 average. So you end up looking at different  
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1 regimes over -- you probably have 40 or 50  
2 years of data. Are they stable or do we end  
3 up looking at last year's war?  
4 MS. PELLISH: That's a very good point.  
5 It turns out -- and this is a sort of an  
6 interesting fact -- that risk is a pretty  
7 stable return and excess return is very  
8 unstable. So we try to look at and we do look  
9 at quite a few rolling five-year periods so we  
10 are not just looking at the last five years,  
11 and we talk a little bit about that further in  
12 the deck about end date dependency but that's  
13 a great point. You have to be very careful  
14 not to get in the trap of just looking back at  
15 recent performance experience. So it's  
16 multiple five-year periods.  
17 So we look at the 40th percentile of  
18 peer group data, and then we look at the  
19 managers' historical tracking error so that  
20 number, the long-term tracking error  
21 expectation reflects what the manager  
22 historically has done because it turns out  
23 tracking error over long periods of time is  
24 pretty stable and then we simply use those two  
25 numbers to solve for the long-term performance  
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1 expectation.

2       So what we have said here is that for  
3 INTECH, our long-term excess returns  
4 expectations net of fees is 12 basis points,  
5 and you might say should we really bother for  
6 12 basis points and that's a real question to  
7 ask. For a manager like Jackson Square, where  
8 they have lots of tracking error, we expect on  
9 average 130 basis points of excess return and  
10 the list goes down. So what this is basically  
11 saying is the more tracking error a manager  
12 has, the more uncertainty the pattern of their  
13 returns relative to the benchmark, the more  
14 excess returns we should get out of that  
15 manager, and that's the pattern that you see  
16 here. So this is really an art and we can  
17 generate numbers to the sixth decimal place,  
18 but there has to be a logic that there has to  
19 be some rigor, and what we are trying to do is  
20 say what is a reasonable set of return  
21 expectations for managers given their  
22 long-term risk characteristics.

23       MR. EVANS: As a user of this type of  
24 information, it's extraordinarily helpful  
25 because these guys have gone to the lengths to

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1 stratify this information across many, many  
2 managers and build in expectations so that we  
3 can compare one manager to the other, and so  
4 it's very, very useful for an outfit like BAM  
5 to have this kind of information at our  
6 disposal.

7       MR. ADLER: Can I ask a question?

8       MS. PELLISH: Of course.

9       MR. ADLER: It's interesting to me that,  
10 you know, the numbers are the same for value  
11 and growth in terms of the long-term excess  
12 return expectation. You know, looking at the  
13 third and fourth lines yet obviously, you  
14 know, this last five-year period, three- and  
15 five-year periods have been much better for  
16 growth stocks than for value stocks. So in  
17 some ways it feels like that there ought to be  
18 -- there is a market cycle issue here, right?

19       MS. PELLISH: Yes.

20       MR. ADLER: Which is not reflected in  
21 the long-term return expectation vis-a-vis the  
22 actual returns for this period of time which,  
23 you know, we have been in this growth cycle so  
24 we haven't -- you know what I am saying?

25       MS. PELLISH: Yes.

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1 MR. EVANS: You are almost asking  
2 shouldn't we look at what percentile is the  
3 information ratio of this growth fund versus  
4 other growth funds.  
5 MS. PELLISH: We do. That's what we are  
6 doing.  
7 MR. EVANS: In the expectation but he is  
8 saying in the -- you have a period where the  
9 cycle you are in is very different from the  
10 cycle you assumed, you might be giving too  
11 much credit or too little credit to the  
12 manager. If you were to sort of decile the  
13 information ratio among large-cap managers,  
14 wouldn't you be offsetting that cycle? I  
15 think that's what you are --  
16 MS. PELLISH: I am not -- I want to  
17 understand better what you are saying. I am  
18 not following.  
19 MR. ADLER: I guess what I am really  
20 getting at if you look at these numbers --  
21 forget the red and green bars, right? You  
22 see, for example, the all cap value manager  
23 NewSouth has, you know, obviously  
24 underperformed during this period both  
25 vis-a-vis the long-term excess return

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1 expectation and vis-a-vis the growth managers.  
2 Well, not actually the first growth manager.  
3 Just Clearbridge but that's not -- because of  
4 the point that we are in in this cycle, the  
5 market cycle.  
6 MR. EVANS: Is that because all all-cap  
7 managers have underperformed expectations or  
8 just this one?  
9 MR. ADLER: Well, all-cap value  
10 managers.  
11 MR. EVANS: I'm sorry. All-cap value  
12 managers.  
13 MR. ADLER: That's what I am saying.  
14 MR. EVANS: That's where I am -- I was  
15 getting at. If you sort of hit the percentile  
16 within the category over a current period, you  
17 get a sense --  
18 MR. FULVIO: So as Robin was mentioning  
19 before, this obviously is a very end-point  
20 sensitive analysis, and I think given the  
21 change of a cycle, we are coming out of a  
22 growth cycle or who knows if we are coming out  
23 of it but we have been in one for a while, and  
24 we have seen value cycles twice as long as  
25 this growth cycle has been, but when we are

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1 looking at peer information for information  
2 ratios, we actually examine the styles  
3 separately. We examine all-cap growth, for  
4 example, on its own, separate from all-cap  
5 value, and what we found though there are  
6 differences over long-term time periods, the  
7 differences actually wash out over time. So  
8 the expectations themselves, we actually got  
9 to a kind of central view as opposed to having  
10 separate growth and value.

11 MR. EVANS: Because you rank them  
12 against each other anyway.

13 MS. PELLISH: I think a lot of this gets  
14 solved by the fact that we look at styles  
15 relative to style benchmarks and relative to  
16 style peers, so a lot of the sort of regime  
17 problem gets dealt with that way. Let me  
18 point out one other thing, which is the green  
19 and red bars. So one of the questions this  
20 raises is well, if you are different from your  
21 long-term excess return or risk expectation,  
22 how different do you have to be before you  
23 worry about it because we know the targets are  
24 just estimates.

25 You are going to be either above or

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1 below the targets, so how much do you have to  
2 deviate before you really care and what we do  
3 is we develop expectations around these  
4 targets, and we say if you are more than one  
5 standard deviation away from that excess  
6 target, then we care. That's a big enough  
7 difference, and so if you are below that one  
8 standard deviation range, you are red. If you  
9 are above it, we also want to understand. If  
10 you are doing way better than we expected you  
11 to do, what's going on. That could also be a  
12 trigger for more due diligence. So we look at  
13 -- all of these numbers are going to be  
14 different than their actual point estimates of  
15 their expectations, but the range of  
16 difference, which is informed by their  
17 tracking error tells us whether we have to dig  
18 deeper.

19 MR. EVANS: So you are using this -- I  
20 am pretty sure you are saying this. I want to  
21 be sure. At a sort of first blush look, if  
22 you are red, it doesn't mean you have failed.  
23 It means you are creating performance that we  
24 care about finding more information. So being  
25 very red may call for a call or a visit or

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1 some sort of deep vetting with the manager to  
2 find out what is going on, but it's not  
3 necessarily a suggestion --

4 MS. PELLISH: This is a way -- yes, so  
5 this is a way to dig through, you know, if you  
6 have very large portfolios with lots of  
7 managers, and it's a way to look at the data  
8 and isolate and gather information from data  
9 and isolate data that is different than that  
10 which we would expect.

11 So I think I beat that to death. So if  
12 we go to page 5, I will just spend a little  
13 bit of time looking at this. The whole reason  
14 for looking at risk-adjusted performance -- so  
15 I will just do this briefly -- is to say it  
16 allows us to compare managers returns where  
17 the pattern of return is very different.

18 So we look at two managers. You have  
19 Sound Shore, which is a large-cap manager and  
20 Shapiro, which is a small-cap manager, both  
21 two very good firms. You have had Sound Shore  
22 for maybe 30 years. Literally maybe 30 years  
23 in the program and you had Shapiro for maybe a  
24 decade or more perhaps. Yes, time flies.

25 And so what we want to show you here is

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1 that if you look over the last three years and  
2 just looked at their excess returns versus  
3 their benchmarks, you will see they are each  
4 generating about 300 basis points -- this is  
5 after fees -- relative to their benchmarks.  
6 Really amazing numbers. So if we just looked  
7 at the last three years, we will say boy,  
8 those managers returns are pretty similar, but  
9 if you look at the tracking error of the last  
10 three years, you will see Shapiro takes a lot  
11 more tracking error which we know and expect.  
12 So the information ratio for Shapiro is  
13 actually less than that of Sound Shore.

14 So this is just another narrower lens to  
15 look at, illustrate why we look at  
16 risk-adjusted returns, otherwise known as  
17 information ratio, because it helps us  
18 understand how different are the managers'  
19 patterns of returns and did we get paid for  
20 taking that risk relative to the benchmark.

21 So I would like to flip to a slightly  
22 different subject, which is page 6, and we  
23 have been talking about three-year returns and  
24 five-year returns and I want to emphasize that  
25 really what we want to examine is the pattern

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1 of returns, and we look at three-year and  
2 five-year returns because it's convenient and  
3 it's easy to look at three and five years and  
4 it's a nice way. It's consistent with the way  
5 we measure performance. It's just convenient  
6 but it also carries a little bit of danger,  
7 particularly for managers that have a lot of  
8 tracking error or a lot of volatility relative  
9 to the benchmark.

10 So this is a messy page so let me  
11 highlight the important data on this page. If  
12 you look at the solid gray peaks and valleys,  
13 the solid gray peaks and valleys -- let me  
14 first tell you, this is Walter Scott who are  
15 one of your large-cap international equity  
16 managers and we measure them based -- versus  
17 the EAFE Growth Index. So they are a growth  
18 international manager. We think the EAFE  
19 Growth Index is a reasonable proxy for their  
20 style, and we could invest in the EAFE Growth  
21 Index and pay a significantly lower fee.

22 So we know that Walter Scott has a lot  
23 of tracking error and I forget what the number  
24 is, but if you look back you can see -- oh, we  
25 don't have it here, but they are one of the

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1 higher tracking error managers you have. So  
2 we want to look at the pattern of returns. So  
3 let's look at the light gray peaks and  
4 valleys. The light gray peaks and valleys  
5 reflect Walter Scott's returns, absolute  
6 returns. This is not relative to the  
7 benchmark. This is just what they have  
8 generated. So you see sometimes they are  
9 strongly positive returns, sometimes they are  
10 negative returns.

11 And let's look at the right side. They  
12 correspond to the right-hand axis. So that  
13 axis goes down to minus 20 and up to positive  
14 35 percent, so you can see they have  
15 approached 30 percent annual returns and these  
16 are over three-year rolling periods. So we  
17 are looking at three-year rolling periods. So  
18 for example, if you look at their data in  
19 December '05, you would say over the past  
20 three years they have averaged an annual  
21 return approaching 30 percent. Pretty good  
22 absolute returns, but as we just talked about,  
23 the alternative is to index so we want to make  
24 sure that we haven't -- wouldn't have been  
25 better off just indexing at a lower fee.

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1           So if we look at -- for relative returns  
2 is this red line. So the solid red line  
3 corresponds to the left-hand axis which goes  
4 from zero percent up to 15 percent and down to  
5 minus 9 percent, and it says over the same  
6 time periods, if we subtracted this total  
7 absolute return of Walter Scott from the  
8 benchmark, how would we have looked.

9           So there is a couple of interesting  
10 points here. One is that if you look at the  
11 peaks of the red lines, which again are excess  
12 returns, you can see that they are almost  
13 inversely correlated to the absolute return.  
14 So you see a peak around December '02 in the  
15 excess -- in the relative return line, which  
16 is that solid red line, and you see a valley  
17 in the absolute return, which is the light  
18 gray, and conversely you see that if you go  
19 around December '06, you see that the relative  
20 return hits negative 3 percent on a rolling  
21 three-year basis, but the absolute returns are  
22 pretty high. So what this is saying is this  
23 manager actually protects on the downside and  
24 lags on the upside, which we know and it's a  
25 consistent pattern and it's part of their

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1 investment philosophy and it's what they seek  
2 to do and this pattern of returns says they  
3 have done that. And it doesn't always feel  
4 very good, but if you look at the overall  
5 pattern of returns, they have accomplished at  
6 least one of the tenets of their philosophy.

7           Let me tell you one other thing, which  
8 is in the bottom left-hand box, since  
9 inception for this product, your annualized  
10 average return over approximately 20 years has  
11 been 7.7 percent. Now, this happens to be a  
12 gross number because you haven't had them for  
13 this entire period of time so this is their  
14 composite returns. So let's subtract even 80  
15 basis points. That would get you about 6.9  
16 percent. The Index has returned 4.4 percent.  
17 So over this very long period of time, they  
18 have generated significant excess return.  
19 There has been a lot of volatility to that  
20 excess return, but they have outperformed when  
21 markets are bad.

22           So there is more data that shows here,  
23 but the point is the pattern of returns, not  
24 just the last three and five years is what is  
25 important.

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1 MR. GANTZ: Robin, I will be very brief  
2 because I know Scott wants me to be very  
3 brief. The last three high-yield searches  
4 that we did are very unique. It just happens  
5 to be coincidental with market peaks and  
6 valleys. So we did the search in 2012 and we  
7 did the search in 2003. We have nine-year  
8 contracts. The search we did in 2002 --  
9 actually 2002, we hired. In 2003, the  
10 end-date performance was June 30, 2002. That  
11 was the week of WorldCom, and in the  
12 high-yield market, the high-yield market  
13 basically collapsed that week. If you were an  
14 aggressive manager, your performance was  
15 wrecked to the point that some of the more  
16 aggressive managers, it went back ten years  
17 and it wrecked ten years of performance. So  
18 your end date, if you look at the ten-year  
19 period, if you look at just the horse race of  
20 the absolute returns, not risk adjusted  
21 returns, you would say you would never hire an  
22 aggressive manager in 2002.

23 Of course, who outperformed over the  
24 next nine years? The most aggressive  
25 managers. In 2012, when we did the search,

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1 the same thing happened. It was a bull market  
2 in credit for the last few years, so who  
3 outperformed? The most aggressive managers.  
4 So you would never hire the most defensive  
5 managers.

6 Now, we want a portfolio that's risk  
7 adjusted, that hires aggressive, defensive,  
8 and core managers. So managers are zigging  
9 and zagging and taken together, you have a  
10 nice portfolio together, but if you just  
11 looked at the nonrisk adjusted numbers, in  
12 2012, you would have never hired a defensive  
13 manager, and in 2003, you would never have  
14 hired an aggressive manager.

15 MR. EVANS: So it's important to have a  
16 portfolio within the portfolio of managers in  
17 each different group that work well together.  
18 Walter Scott is a very volatile manager. When  
19 you talk to them, they have a very  
20 straightforward, extremely long term -- they  
21 are Scottish -- extremely long-term outlook on  
22 things. They are in a very narrow portfolio.  
23 They are the perfect manager to buy when  
24 things are down and to sell when things are  
25 up, otherwise known as rebalancing. So if you

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1 are keeping sort of an equal exposure to your  
2 managers, they have terrible performance.  
3 That's when you want to buy. They have  
4 fantastic performance, that's when you want to  
5 sell.

6 So when we put our rebalancing program  
7 together this summer, their performance was  
8 terrible and we were buying. We were one of  
9 their only clients who were buying. We bought  
10 several hundred million dollars and their  
11 performance shot back up because they don't  
12 care about matching the index. They could  
13 care less. They are totally focused on the  
14 long term, and as a result, their numbers are  
15 all over the place. But you can't have a  
16 whole portfolio of them, which is why we work  
17 with Rocaton to look at numbers like this so  
18 we are with other managers that are compatible  
19 to make sure the whole portfolio is not  
20 jumping all around like the Walter Scott.

21 MS. PELLISH: I am just going to touch  
22 on one other topic which is peer group  
23 analysis. So we emphasized that we look at  
24 data relative to peer groups. We have  
25 established target information ratios based on  
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1 peer groups to make sure we are not penalizing  
2 or rewarding managers because of their styles  
3 they favor. We also look at managers'  
4 rankings within peer groups, but what we and  
5 many others have observed over time is that  
6 rankings within peer groups, most notably  
7 within equity peer groups, is notoriously  
8 unstable and unreliable as an indicator of  
9 anything going forward.

10 So let me turn you to page 8, and I will  
11 show you some interesting data. What we have  
12 done here is we have compared two five-year  
13 periods so they are not overlapping. We look  
14 at the five years ending 12/31/2009 and then  
15 we look separately at the five years ending  
16 12/31/2014 so at a sample of two separate data  
17 groups. Two separate periods. And what we  
18 said is let's look at the top quartile  
19 managers among U.S. large-cap equity managers  
20 in the five years ending 2009, and let's  
21 follow those managers and see how they did in  
22 the five years ending 2014.

23 So if we took the top 25 percent of  
24 managers from 2009 and looked at the  
25 subsequent five years of that group, 38

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1 percent fell above median and the remainder  
2 fell below median. So if you were just  
3 looking at things randomly, you would never  
4 invest in those top quartile managers from the  
5 first five-year period.

6 If we look at the bottom quartile  
7 managers from the first five-year period and  
8 we said how did they do in the next five-year  
9 period, we would have found that almost 60  
10 percent of them were above median in the next  
11 five-year period. So sort of like the  
12 inverse.

13 And we show that is true on the next  
14 page with small-cap equity. We show it's true  
15 in developed international large cap equity,  
16 and we have looked at this. It is an  
17 anomalous result from just these two five-year  
18 periods. Whatever five years, we look at this  
19 every year and it's true every year and it's  
20 true not only -- you know, when they say in  
21 mutual funds historical performance is not  
22 predictive of future performance, they really  
23 mean it. It's really true and it's true for  
24 not only for absolute performance, not only  
25 for relative performance, but it's true for

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1 peer group rankings as well. Yes.

2 MR. ADLER: So correct me if I am wrong,  
3 but that seems to be an argument for indexing.

4 MS. PELLISH: Yes.

5 MR. EVANS: Well, if you are going to do  
6 anything -- it says if you are going to do  
7 anything based on the odds and the odds aren't  
8 much better, you buy the guys that are down,  
9 but to me, this is just powerful stuff about  
10 persistence. If individual investors in the  
11 United States would somehow be able to inject  
12 this through their brains so their behavior  
13 didn't chase the hot performing bonds, we  
14 would create billions of dollars as well.  
15 John Bollinger had done studies. I am sure  
16 you guys have as well. Investors,  
17 particularly individuals, continually destroy  
18 wealth by chasing last year's hot funds.

19 MR. AARONSON: These managers that went  
20 from below median to above median and so  
21 forth, is there any consistency in the ones  
22 that were above median so that in the first  
23 five-year period they were above median and  
24 the same ones were above median in the next,  
25 or is the fact that when you have active

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1 management, very few active managers even  
2 though some years they may regularly beat the  
3 index --

4 MS. PELLISH: Yes. So I am going to  
5 rephrase -- so we haven't been able to find  
6 and nor has anyone that I am aware of been  
7 able to find characteristics of managers that  
8 are predictive of future strong performance.  
9 The one -- the one predictive element that  
10 there seems to be some real data for is this  
11 concept about share. So managers that look  
12 very different from the benchmark, that seems  
13 to help their performance, but we, along with  
14 every other institutional investor and every  
15 other consultant in the world, spend a lot of  
16 time winnowing through thousands and thousands  
17 of active managers trying to find a few good  
18 men mostly but trying to find other people  
19 too.

20 But that's why we say in asset classes,  
21 where you can index -- and that's true in all  
22 of U.S. and international. Indexing is always  
23 your default, and the bar for hiring an active  
24 manager has to be high because not only are  
25 you paying fees -- fortunately, the New York

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#### Proceedings

1 City and TRS have negotiated very, very  
2 competitive fees, but there is a lot of time  
3 and effort spent talking about these managers  
4 on the staff's part and consultants' part and  
5 most importantly on the Board's part.

6 So unless we really think we are going  
7 to be significantly rewarded, we shouldn't  
8 bother. Now, there are lots of asset classes  
9 including private asset classes, including  
10 things like yield and convertible where index  
11 for a variety of reasons isn't even possible  
12 and isn't a good idea, but your largest  
13 investments are not in those asset classes.  
14 So we have some other information about bank  
15 loans. Bank loans do show some persistence,  
16 but I will just conclude by saying there is a  
17 lot of data here, there is a lot of  
18 information that we gather, that TRS and BAM  
19 gather. And we want to make sure that we are  
20 using data wisely and winnowing through the  
21 data to really identify information that  
22 focuses our efforts on those managers that  
23 require additional due diligence.

24 MR. AARONSON: So my concern is the fees  
25 we are paying for active management, and I

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#### Proceedings

1 wonder is there some way to compare how TRS  
2 has done over the years between the asset  
3 allocation we had and the managers we have  
4 had, and if we purely indexed over that same  
5 period of time, how much difference would  
6 there have been.

7 For instance, when we started our  
8 program, we were 100 percent fixed income in  
9 1970 -- in 1981 or so when I started. We got  
10 a new actuary at that time, and the new  
11 actuary said that's terrible; you should be  
12 invested in equities. And so we changed our  
13 investment. I don't recall exactly. It might  
14 have been 50 and 50 percent first and  
15 eventually went to 60 percent equities and 40  
16 percent and it was just pure public equities  
17 and pure public fixed income investments and  
18 then over the years, we added alternative  
19 investments and -- but our asset allocations  
20 stayed about the same. For a while it was  
21 70/30 in equities, which included many of  
22 these alternatives, and then now I believe our  
23 asset allocation recommendation is 67 percent  
24 equities, 33 percent fixed income.

25 It was -- we thought -- a few years ago,  
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1 the actuary recommended that we not be taking  
2 so much risk at 70 percent equities and cut  
3 our risk to 67 percent equities and all our  
4 changes that occurred, what I would like to  
5 see is is there anything that could show us we  
6 would have been better off indexing every time  
7 we made these changes.

8 It's my understanding -- I think about  
9 this frequently when I think about our  
10 investments. Wise people -- that's probably  
11 you -- told us that the asset allocation  
12 choice gives you about 90 percent of your  
13 return, and the managers that you select  
14 provide only 10 percent of the return. So may  
15 not be exactly right. I would like to see how  
16 we would have done. Is it possible to do  
17 that?

18 MS. PELLISH: Sure. Sure.

19 MR. AARONSON: Could you add that to the  
20 list of things to do?

21 MS. PELLISH: Yes, absolutely. We will  
22 have to use some assumptions about returns  
23 because the Pension Fund historical returns  
24 aren't net of fees.

25 MR. EVANS: We have been working on the

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1 net of fees.  
2 MS. PELLISH: We can collaborate and  
3 work on that.  
4 MR. EVANS: We will take that challenge  
5 as well.  
6 MR. AARONSON: When I heard the word  
7 "collaborate", it's not a very positive word.  
8 You are going to work together.  
9 MR. EVANS: You have to realize we  
10 collaborate on everything. Rocaton is our  
11 partner. Without the type of data that they  
12 have, the type of analysis they have, we would  
13 need a far greater staff at BAM. We are built  
14 to work collaboratively with firms like  
15 Rocaton.  
16 MS. MARCH: I want everybody to  
17 understand if we get to that point, my dream  
18 will finally come true.  
19 MR. AARONSON: Are you finished with  
20 your presentation?  
21 MS. PELLISH: I am. Thank you for your  
22 attention.  
23 MR. AARONSON: Sorry I interrupted  
24 several times. Is there anybody here that  
25 would like to ask any questions about this?

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1 MS. PELLISH: Thank you.  
2 MR. AARONSON: Thank you guys very much  
3 for that. And we look forward to maybe at  
4 each board meeting or whatever it is some more  
5 education.  
6 MS. PELLISH: That's the plan.  
7 Well, we have one more -- oh, public.  
8 Sorry.  
9 MR. AARONSON: Scott, is that --  
10 MR. EVANS: I think that's it, Mr.  
11 Chairman, for our public session. We are  
12 ready to go into the private session when you  
13 are.  
14 MS. MARCH: I move pursuant to Public  
15 Officer Law's Section 105 to go into executive  
16 session for discussion regarding the purchase  
17 of sale of securities and updates on specific  
18 investment managers.  
19 MR. AARONSON: So do I hear a second?  
20 MS. VICKERS: Second.  
21 MR. AARONSON: Any discussion? Those in  
22 favor? Aye.  
23 MS. BEYER: Aye.  
24 MR. BROWN: Aye.  
25 MS. MARCH: Aye.

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1 MS. VICKERS: Aye.  
2 MR. ADLER: Aye.  
3 MR. AARONSON: Any opposed? Okay.  
4 We are now in executive session and I  
5 suggest a 10-minute break.  
6 (Recess taken.)  
7 MR. AARONSON: Everybody good? Okay. I  
8 think we need -- do I hear a motion to move  
9 out of executive session?  
10 MS. MARCH: So moved.  
11 MR. AARONSON: Is there a second?  
12 MR. ADLER: Second.  
13 MR. AARONSON: Any discussion? Seeing  
14 none, everybody who wants to go out of  
15 executive session say. Aye.  
16 MS. BEYER: Aye.  
17 MR. BROWN: Aye.  
18 MS. MARCH: Aye.  
19 MS. VICKERS: Aye.  
20 MR. AARONSON: Anybody who is opposed  
21 say no. The ayes have it. So we are now  
22 longer in executive session. We are back in  
23 public session, and we would like to put into  
24 the record a summary of what we did in the  
25 executive session.

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1 Ms. Stang?  
2 MS. STANG: Certainly. In the executive  
3 session for the Variable Funds, a presentation  
4 about changing the target allocation within  
5 the active sector of Variable A was received  
6 and discussed. Consensus was reached, which  
7 will be announced at the appropriate time.  
8 In the executive session of the Pension  
9 Fund, there was a discussion of the process  
10 and scheduling in 2015 of RFPs for new  
11 investment managers which were received and  
12 discussed. Consensus was reached, which will  
13 be announced at the appropriate time.  
14 Two manager updates were presented.  
15 There was a discussion about a real estate  
16 investment and different appraisal techniques  
17 within the real estate industry. There was a  
18 discussion of valuation techniques, industry  
19 practices and fees in the private equity  
20 industry and how it fits within the overall  
21 asset allocation.  
22 MR. AARONSON: Thank you. Is there  
23 anybody who wants to add or subtract anything?  
24 Okay. So we are now ready for a motion to  
25 adjourn until our next meeting in May.

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1 MS. MARCH: No, I am not ready. I am  
2 not ready. I would just like to -- I know  
3 everybody may or may not be aware of it. This  
4 is Mr. Aaronson's last --  
5 MR. AARONSON: No.  
6 MS. MARCH: Okay. I take it back.  
7 MR. AARONSON: The next meeting is the  
8 meeting of May, and I will be a member of the  
9 retirement board until the beginning of May.  
10 (Discussion off the record.)  
11 MS. MARCH: It is Mr. Aaronson's last  
12 board meeting and it's all right. He always  
13 thought I was wrong but that's okay. And I  
14 just personally want to take the opportunity  
15 because of his 34 or 35 years here --  
16 MR. AARONSON: 1980 so 35.  
17 MS. MARCH: I have been there for 30 of  
18 those years and it has been -- was anybody  
19 here those 30 years? So I guess I am the only  
20 person. It has been a pleasure to work with  
21 you all of those years, Mr. Aaronson, and we  
22 wish you well and we hope to see you on a  
23 regular basis.  
24 MR. AARONSON: Thank you very much. I  
25 plan to be around and to do what I can to help  
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1 in my new position as nobody to affect the  
2 retirement security for teachers. I am also  
3 going to be working hard on retirement  
4 security for all. I am going to be continuing  
5 my work with the National Conference on Public  
6 Employee Retirement Systems, and so I thank  
7 you very much, all of you, for I know your  
8 deep, deep concern for the members of the  
9 retirement system and for making sure that we  
10 provide them with retirement security and  
11 continue to do that, and investment staff at  
12 BAM I know works very hard in doing that. I  
13 know the Mayor's office for the last couple of  
14 months have worked hard in doing that, and I  
15 especially want to thank the people from  
16 Rocaton. Before there was a Rocaton, there  
17 were other companies that -- and for the whole  
18 35 years that I have been on the Board, we  
19 have had really the same consultant and --  
20 MS. PELLISH: But it wasn't always me.  
21 MR. AARONSON: Not always Robin and I  
22 just want to say that when I became a member  
23 of the Board, the Board had 4 billion dollars  
24 in assets. We heard a report today that we  
25 have 60 billion dollars in assets, and in the  
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1 35 years I don't know how many billions of  
2 dollars we have paid to retirees and therefore  
3 put into the economy of New York State since  
4 most retirees stay here in New York State, and  
5 so I really feel good about that and I thank  
6 you all for all of your service to the system.

7 (Applause)

8 MR. AARONSON: We are adjourned.

9 (Time noted: 1:21 p.m.)

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C E R T I F I C A T E

1  
2 STATE OF NEW YORK )  
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4 COUNTY OF QUEENS )

5  
6 I, YAFFA KAPLAN, a Notary Public  
7 within and for the State of New York, do  
8 hereby certify that the foregoing record of  
9 proceedings is a full and correct  
10 transcript of the stenographic notes taken  
11 by me therein.

12 IN WITNESS WHEREOF, I have hereunto  
13 set my hand this 6th day of April, 2015.

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YAFFA KAPLAN  
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